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# JAMECO®

## ELECTRONICS

Great Products. Awesome Prices!

Catalog 273  
August 2007

### More Semis - Another Jameco Advantage!

	Mouser®	Newark	Catalog Distributor x	Jameco®
Attera	✓	✓	✓	✓
Analog Devices	✓	✓	✓	✓
Adaxel Semiconductor	✓	✓	✓	✓
Avago Technology	✓	✓	✓	✓
Cypress Semiconductor	✓	✓	✓	✓
Diodes Inc.	✓	✓	✓	✓
Fairchild Semiconductor	✓	✓	✓	✓
Freemate Semiconductor	✓	✓	✓	✓
Infineon Technology	✓	✓	✓	✓
Integrated Devices	✓	✓	✓	✓
Intel Corporation	✓	✓	✓	✓
Interhill	✓	✓	✓	✓
Lattice Semiconductor	✓	✓	✓	✓
Linear Technology	✓	✓	✓	✓
Lite-on	✓	✓	✓	✓
Maxim Semiconductor	✓	✓	✓	✓
Micron Technology	✓	✓	✓	✓
Microsemi	✓	✓	✓	✓
National Semiconductor	✓	✓	✓	✓
NEC Corporation	✓	✓	✓	✓
Philips Semi	✓	✓	✓	✓
Renesas Technology	✓	✓	✓	✓
Sharp Microelectronics	✓	✓	✓	✓
ST Micro	✓	✓	✓	✓
Texas Instruments	✓	✓	✓	✓
Toshiba	✓	✓	✓	✓
<b>TOTAL</b>	12	14	14	<b>26</b>

Product line comparison information derived from each company's website on May 29th 2007.

- Many More Semiconductor & Passive Brands than Other Distributors
- Over 99% of Catalog Products are in Stock for Immediate Delivery
- Only Jameco Guarantees the Lowest Prices

Over 10,000 New Products

Now Jameco offers over 10,000 more products than in June! We've added more of the major name-brand Semiconductor and Passive products you requested, from manufacturers including *Allegro, Altera, Analog Devices, Astec, Bussmann, Cherry, Cinch, Dialight, Linear Technology, Littelfuse and Switchcraft.*



Looking for environmentally-friendly *CEC and EnergyStar* compliant power adaptors? Jameco stocks those too! Just check out pages 176-178 & 193.

More Products Available at [www.Jameco.com](http://www.Jameco.com)

Be sure to visit our website for immediate access to over 100,000 additional products we offer every day. You can still thumb through this catalog, but you'll find a lot more selection on our very comprehensive website.



More Great Info at [www.Jameco.com](http://www.Jameco.com)

- Tens of thousands of free datasheet downloads available
- Cross-references available for hundreds of thousands of products
- Parametric filtering for fast selection of many products

Top 3 Reasons to Choose

More of the Semiconductor Brands You Need!

Jameco offers more of the semiconductor brands you need. Just check out the comparison of semis offered by multiple distributors on the front cover and decide for yourself! There's no need to shop multiple web sites, thumb through multiple catalogs or listen to pitches from multiple sales reps.

**So why shop anywhere else for semiconductors?**  
We offer the products you want! Our Product Marketing team researches your needs every day. They look at the feedback you provide to our sales reps, your quote requests, your eMail requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com), research information and much more. Then they include their own expert industry knowledge to determine which products you'll want the most.  
The result, you are now able to get more of the semiconductor lines you want at Jameco!

**Also, More Non-Semis...**  
Jameco also offers more of the *passive, interconnect* and *electromechanical* brands you need every day. Just check out the chart on the right to see for yourself!

99+% of Catalog Products In Stock!

Our catalog always offers over 99% in-stock availability — the BEST of any electronic components distributor. That means whenever you place an order for a product in this catalog, over 99% will be available for same-day shipment, saving you valuable time. No other electronic component distributor offers service even close to 99%. Just ask them!



Jameco as Your Supplier

Jameco also has a great offering in *Passives, Interconnects* and *Electromechanical* versus other catalogers.

Get All Your Passives Also!

	Mouser®	Newark®	Catalog Distributor x	Jameco®
3M Company	✓	✓	✓	✓
AMP	✓	✓	✓	✓
Avnet	✓	✓	✓	✓
AVX Corporation	✓	✓	✓	✓
Bourns	✓	✓	✓	✓
Cherry	✓	✓	✓	✓
Comair Rotron	✓	✓	✓	✓
Condor Power	✓	✓	✓	✓
Corcom	✓	✓	✓	✓
CTS	✓	✓	✓	✓
Eaton Connector	✓	✓	✓	✓
Fox Electronics	✓	✓	✓	✓
Grayhill	✓	✓	✓	✓
Ind'l Resistor	✓	✓	✓	✓
Kemet	✓	✓	✓	✓
Littelfuse	✓	✓	✓	✓
Molex	✓	✓	✓	✓
Oakton	✓	✓	✓	✓
Panasonic	✓	✓	✓	✓
Potter & Brumfield	✓	✓	✓	✓
Power-One	✓	✓	✓	✓
Rougham	✓	✓	✓	✓
Telephone Relay	✓	✓	✓	✓
Vishay	✓	✓	✓	✓
Wetzel	✓	✓	✓	✓
TOTAL	19	19	21	25

Product line comparison information derived from each company's website on May 29th 2007.

Only Jameco Guarantees the Lowest Prices!

Our Product Marketing team is compelled to offer you the best prices in the industry! They know that when they do their homework properly, there's less work for you... and like the growing list of Jameco customers, you won't want to shop anywhere else!

Simply Stated...

If you can find a print-advertised price elsewhere for a product we offer, let us know. We'll offer you that product for 10% less than their price, right down to our cost!

All of us at Jameco are committed to making sure we live up to our much-talked-about low-price guarantee! We aim to always offer you the absolute best prices in the industry! That's why our entire team dedicates much of its time researching and responding to constantly-changing market prices.

Still not sure you'll save with Jameco? Compare for yourself. We believe you'll find our prices are the lowest!



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Thousands of additional ICs are now available on our website.

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◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## PIC Microcontrollers

For more Microchip Microcontrollers  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
145111	PIC16F84-04/P	DIP-18	Flash	4	1k	68	13	\$6.59	\$4.39
145120	PIC16F84-10/P	DIP-18	Flash	10	1k	68	13	7.09	6.49
223790	PIC12F629-1/P	DIP-8	Flash	20	1k	64	6	1.49	1.25
223781	PIC12F675-1/P	DIP-8	Flash	20	1k	64	6	1.69	1.07
312514	PIC12F683-1/P	DIP-8	Flash	20	4k	128	6	2.19	2.05
323096	PIC16F505-1/P	DIP-14	Flash	20	1k	72	12	1.65	1.49
312531	PIC16F54-1/P	DIP-18	Flash	20	512	25	12	1.79	1.73
193439	PIC16F627-20/P	DIP-18	Flash	20	1k	224	16	3.29	2.85
193447	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	3.49	2.52
246756	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	2.65	2.62
223749	PIC16F630-1/P	DIP-14	Flash	20	1k	64	12	1.89	1.67
247142	PIC16F648A-1/P	DIP-18	Flash	20	4k	256	16	3.25	2.55
223757	PIC16F676-1/P	DIP-14	Flash	20	1k	64	12	2.19	1.43
312590	PIC16F684-1/P	DIP-14	Flash	20	2k	128	12	2.39	1.62
312611	PIC16F688-1/P	DIP-14	Flash	20	4k	256	12	2.79	2.58
312670	PIC16F737-1/SP	DIP-28	Flash	20	4k	368	25	5.39	4.65
223765	PIC16F818-1/P	DIP-18	Flash	20	1k	128	16	2.65	2.36
223773	PIC16F819-1/P	DIP-18	Flash	20	2k	256	16	2.85	2.35
193332	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	5.59	4.66
246861	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	6.25	5.55
246895	PIC16F870-1/SP	DIP-28	Flash	20	2k	128	22	4.35	3.05
246941	PIC16F872-1/SP	DIP-28	Flash	20	2k	128	22	3.65	3.48
246975	PIC16F873A-1/SP	DIP-28	Flash	20	4k	192	22	6.29	5.50
246991	PIC16F874A-1/P	DIP-40	Flash	20	4k	192	33	7.55	6.00
193367	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22	6.79	4.85
247011	PIC16F876A-1/SP	DIP-28	Flash	20	8k	368	22	7.35	4.37
176882	PIC16F877-20/P	DIP-40	Flash	20	256	368	33	9.29	8.05
247046	PIC16F877A-1/L	PLCC-44	Flash	20	8k	368	33	8.15	7.59
247038	PIC16F877A-1/P	DIP-40	Flash	20	8k	368	33	7.25	4.80
247097	PIC16F87-1/P	DIP-18	Flash	20	4k	368	16	3.39	3.15
312733	PIC16F88-1/P	DIP-18	Flash	20	7k	368	16	4.15	3.05
248111	PIC18F1320-1/P	DIP-18	Flash	40	4k	256	16	4.89	4.34
312303	PIC18F2525-1/SP	DIP-28	Flash	40	48k	3986	25	8.89	7.98
247994	PIC18F252-1/SP	DIP-28	Flash	40	16k	1536	23	8.05	6.60
248049	PIC18F452-1/L	PLCC-44	Flash	40	16k	1536	34	10.35	9.14
248031	PIC18F452-1/P	DIP-40	Flash	40	16k	1536	34	8.85	7.59
248057	PIC18F458-1/P	DIP-40	Flash	40	16k	1536	34	11.05	6.48
145040	PIC12C508A-04/P	DIP-8	OTP	4	512	25	5	1.49	.99
144258	PIC12C509A-04/P	DIP-8	OTP	4	1k	41	5	1.49	1.09
128338	PIC16C54A-04/P	DIP-18	OTP	4	512	25	12	2.25	2.02
193341	PIC16C57C-04/P	DIP-28	OTP	4	2k	72	20	3.06	1.97
193359	PIC16C711-04/P	DIP-18	OTP	4	1k	68	13	3.25	2.43

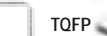


## Microcontrollers

For more Atmel Microcontrollers  
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Part No.	Product No.	Pkg.	Description	1	25
765118	ATMEGA8L-8PC	DIP-28	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 8MHz, C-temp	\$4.55	\$4.18
847367	ATMEGA8-16AC	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 16MHz, C-temp	5.15	4.61
847421	ATMEGA8-16PC	DIP-28	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 16MHz, C-temp	3.59	3.26
248330	ATMEGA8-16PI	DIP-28	8-bit MCU, 8kB flash, 16MHz, 23 I/O	5.05	4.05
323133	ATMEGA16-16PI	DIP-40	8-bit MCU, 16kB flash, 16MHz, 32 I/O, I-temp	6.25	3.91
847130	ATMEGA16L-8AC	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 8MHz, C-temp	6.95	6.39
847164	ATMEGA16L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 8MHz, I-temp	6.39	5.78
764756	ATMEGA16L-8MU	QFN-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 8MHz, I-temp	6.49	5.99
847041	ATMEGA16-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 16MHz, I-temp	6.39	5.78
764617	ATMEGA16-16PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 32 I/O, 16MHz, C-temp	7.59	7.08
847228	ATMEGA32L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 32k flash, 32 I/O, 8MHz, I-temp	8.09	7.32
847199	ATMEGA32-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 32k flash, 32 I/O, 16MHz, I-temp	8.09	7.32
764852	ATMEGA48V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
847332	ATMEGA64L-8AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 64k flash, 53 I/O, 8MHz, I-temp	11.75	10.61
764895	ATMEGA64L-8MU	QFN-64	8-bit AVR <sup>®</sup> MCU, 64k flash, 53 I/O, 8MHz, I-temp	11.85	10.99
847287	ATMEGA64-16AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 64k flash, 53 I/O, 16MHz, I-temp	11.75	10.61

★ Please call or visit our website for minimum order quantity and pricing



Thousands of additional ICs are now available on our website.


## Microcontrollers (Continued)


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 visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	25
765097	ATMEGA88V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
846989	ATMEGA128L-8AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 8MHz, I-temp	14.89	13.48
846954	ATMEGA128-16AU	TQFP-64	8-bit AVR <sup>®</sup> MCU, 128k flash, 53 I/O, 16MHz, I-temp	14.89	13.48
764676	ATMEGA162V-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 8MHz, I-temp	5.95	5.34
764692	ATMEGA162V-8PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 8MHz, I-temp	8.35	7.74
764633	ATMEGA162-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 16MHz, I-temp	5.95	5.34
764650	ATMEGA162-16PI	DIP-40	8-bit AVR <sup>®</sup> MCU, 16k flash, 35 I/O, 16MHz, I-temp	6.95	6.44
764730	ATMEGA168V-10AU	TQFP-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
847105	ATMEGA168V-10MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 10MHz, I-temp	★	Call
764713	ATMEGA168-20MU	QFN-32	8-bit AVR <sup>®</sup> MCU, 8k flash, 23 I/O, 20MHz, I-temp	★	Call
764799	ATMEGA2560V-8AU	TQFP-100	8-bit AVR <sup>®</sup> MCU, 256k flash, 86 I/O, 8MHz, I-temp	17.19	14.40
764772	ATMEGA2560-16AU	TQFP-100	8-bit AVR <sup>®</sup> MCU, 256k flash, 86 I/O, 16MHz, I-temp	17.19	14.40
764932	ATMEGA8515L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, I-temp	5.09	4.62
764959	ATMEGA8515L-8JC	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, C-temp	5.25	4.74
764975	ATMEGA8515L-8JI	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 8MHz, I-temp	5.25	5.10
764916	ATMEGA8515-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 35 I/O, 16MHz, I-temp	5.09	4.62
847455	ATMEGA8535L-8AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 8MHz, I-temp	5.49	4.99
764991	ATMEGA8535-16AU	TQFP-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, I-temp	6.89	6.39
765011	ATMEGA8535-16JC	PLCC-44	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, C-temp	5.65	5.11
765038	ATMEGA8535-16PC	DIP-40	8-bit AVR <sup>®</sup> MCU, 8k flash, 32 I/O, 16MHz, C-temp	7.05	6.51
765193	ATTINY11L-25C	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 2MHz, C-temp	.77	.72
765214	ATTINY11L-2SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 2MHz, I-temp	.77	.72
765265	ATTINY12V-15C	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 1.2MHz, C-temp	1.69	1.54
765281	ATTINY12V-1SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 1.2MHz, I-temp	1.69	1.54
847535	ATTINY12L-4SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 4MHz, I-temp	2.15	1.96
248170	ATTINY12-8PC	DIP-8	8-bit MCU, 1KB flash, 8MHz, 6 I/O	1.85	1.56
765345	ATTINY13V-10PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 10MHz, I-temp	1.75	1.59
765353	ATTINY13V-10PU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 10MHz, I-temp	1.44	1.28
765311	ATTINY13-20SI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.59	1.53
765329	ATTINY13-20SSI	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.39	1.26
765337	ATTINY13-20SU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 20MHz, I-temp	1.44	1.18
765361	ATTINY15L-1PI	DIP-8	8-bit AVR <sup>®</sup> MCU, 1k flash, 6 I/O, 1.6MHz, I-temp	2.75	2.55
847623	ATTINY26L-8SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, I-temp	2.95	2.70
847658	ATTINY26L-8SU	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 8MHz, I-temp	2.35	2.13
765417	ATTINY26-16SC	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 16 I/O, 16MHz, C-temp	2.95	2.70
689039	ATTINY231V-10PU	DIP-20	8-bit MCU, 2kB flash, 10MHz, 18 I/O, I-temp	2.19	1.75
765396	ATTINY2313V-10SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.65	2.45
765409	ATTINY2313V-10SU	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 10MHz, I-temp	2.25	1.78
765370	ATTINY2313-20MU	QFN-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	★	Call
1537061	ATTINY2313-20PU	DIP-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.25	2.03
847578	ATTINY2313-20SI	SOIC-20	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.09	1.91
847594	ATTINY2313-20SU	SOIC-8	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.65	2.45
765388	ATTINY2313-20SU SL383	SOIC-8	8-bit AVR <sup>®</sup> MCU, 2k flash, 18 I/O, 20MHz, I-temp	2.25	1.78
248217	ATTINY26-16PC	DIP-20	8-bit MCU, 2kB flash, 16MHz, 16 I/O	2.05	1.23
323141	ATMEGA8515-16PC	DIP-40	8-bit MCU, 8kB flash, 16MHz, 35 I/O	4.59	3.40
763534	AT80C32X2-RLTUL	VQFP-44	8-bit MCU, 8k-bytes ROM/OTP romless, I-temp	★	Call
763551	AT88SC0808C-PU	DIP-8	8-bit MCU, 8k-bit crypto memory, I-temp	★	Call
168874	AT89C2051-24PC	DIP-20	8-bit MCU, 2kB flash, 24MHz, 15 I/O	2.29	1.70
763614	AT89C2051-12SU	SOIC-20	8-bit MCU, 2kB flash, 15 I/O, 12MHz, I-temp	1.69	1.59
204089	AT89C4051-24PC	DIP-20	8-bit MCU, 4kB flash, 24MHz, 15 I/O	2.15	1.78
845791	AT89C2051-24PI	DIP-20	8-bit MCU, 2kB flash, 15 I/O, 24MHz, I-temp	1.95	1.67
168911	AT89C51-24JC	PLCC-44	8-bit MCU, 4kB flash, 24MHz, 32 I/O	4.55	4.07
168903	AT89C51-24PC	DIP-40	8-bit MCU, 4kB flash, 24MHz, 32 I/O	4.95	4.35
168920	AT89C52-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	3.45	2.85
763631	AT89C5131A-RDTIM	VQFP-64	8-bit flash MCU w/ full speed USB device, I-temp	★	Call
763681	AT89C51RD2-RLTIM	VQFP-44	8-bit flash MCU, four 8-bit I/O ports, I-temp	★	Call
763711	AT89C51ND1C-ROTL	TQFP-80	Single chip flash MCU, 64k flash, I-temp	★	Call
763737	AT89C55WD-24JI	PLCC-44	8-bit MCU, 20kB flash, 32 I/O, 24MHz, I-temp	★	Call
845919	AT89C55WD-24JU	PLCC-44	8-bit MCU, 20kB flash, 32 I/O, 24MHz, I-temp	5.59	5.02
763753	AT89C55WD-24PI	DIP-40	8-bit MCU, 20kB flash, 32 I/O, 24MHz, I-temp	★	Call
763770	AT89LS52-16JC	PLCC-44	8-bit MCU, 8kB ISP flash, 32 I/O, 16MHz	2.29	2.22

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Part No.	Product No.	Pkg.	Description	1	25
355830	AT89S51-24PC	DIP-40	8-bit MCU, 4kB flash, 33MHz, 32 I/O	\$2.10	\$1.58
763817	AT89S51-24PI	DIP-40	8-bit MCU, 4kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
220871	AT89S52-24JI	PLCC-44	8-bit MCU, 8kB flash, 33MHz, 32 I/O, I-temp	1.85	1.49
845943	AT89S52-24JC	PLCC-44	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz	2.99	2.53
845978	AT89S52-24JU	PLCC-44	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz, I-temp	3.05	2.75
763825	AT89S52-24PI	DIP-40	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
763841	AT89S52-24PU	DIP-40	8-bit MCU, 8kB ISP flash, 32 I/O, 24MHz, I-temp	2.29	2.16
662637	AT89S52-24PC	DIP-40	8-bit MCU, 8kB programmable flash	2.15	1.62
168946	AT89C55WD-24PC	DIP-40	8-bit MCU, 20kB flash, 24MHz, 32 I/O	6.59	4.94
204097	AT89S8252-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	5.95	5.35
846006	AT89S8253-24AI	TQFP-44	8-bit MCU, 12kB flash, 32 I/O, 24MHz, I-temp	★	Call
763868	AT89S8253-24AU	TQFP-44	8-bit MCU 12kB flash, 32 I/O, 24MHz, I-temp	★	Call
846031	AT89S8253-24JI	PLCC-44	8-bit MCU 12kB flash, 32 I/O, 24MHz, I-temp	5.55	5.29
846057	AT89S8253-24JU	PLCC-44	8-bit MCU 12kB flash, 32 I/O, 24MHz, I-temp	4.89	4.43

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## Microcontrollers

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Part No.	Product No.	Pkg.	Description	1	10	100
699077	MSP430F169IPM	QFP-64	60kB + 256B flash, 2kB RAM, 48 I/O	★	Call	Call
699000	MSP430F1232IPW	TSSOP-28	8kB + 256B flash, 256B RAM, 14 or 22 I/O	4.95	4.67	4.54

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## MCUs

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793750	MC68HC705J1ACPE	DIP-20	8-bit, 64kB RAM1240b EPROM, 14 I/O, I-temp	\$3.99	\$3.18
793901	MC68HC908Q72CPE	DIP-8	8-bit, 1.5kB flash, 128b RAM, 8-bit 4-ch A/D converter	1.99	1.78
793995	MC705C8ACPE	DIP-40	8-bit, on-chip oscillator, 24-bidirect. I/O & 7 input lines	11.35	9.53
794015	MC705C9ACPE	DIP-40	352b RAM, 15k EPROM, 31 I/O, on-chip osc.	11.79	11.67
794031	MC705J1ACDWE	SOIC-20	8-bit, 1240b EPROM, 164b RAM, 14 I/O, on-chip osc.	2.99	2.74
797988	MC908J1ECDWE	SOIC-20	8-bit, 1.5kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.25	2.90
798008	MC908J3CEDWE	SOIC-20	8-bit, 4kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	2.99	2.92
798016	MC908J3CEDWE	SOIC-28	8-bit, 4kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.85	3.74
798032	MC908JL3ECPE	DIP-28	8-bit, 4kB flash, 128b RAM, 12-ch 8-bit ADC, 23 I/O	3.85	3.74
798059	MC908JL8CDWE	SOIC-28	8-bit, 8kB flash, 256b RAM, 13-ch 8-bit ADC, 26 I/O	5.35	5.22
798091	MC908QT2ACPE	DIP-8	8-bit, 1.5kB flash, 6-ch 10-bit ADC	★	Call
798112	MC908QT2AMFOE	DFN-8	8-bit, 1.5kB flash, 6-ch 10-bit ADC	★	Call
798139	MC9508Q64CFQE	DFN-8	8-bit, 4kB flash, 256b RAM, 4-ch ADC, 4 I/O	★	Call
798198	MCHC705JP7CDWE	SOIC-28	6k EPROM, 224b LP RAM, 14 I/O	5.45	5.14
798235	MCHC908Q4YCDWE	SOIC-16	8-bit, 4kB flash, 6-ch 10-bit ADC	★	Call
871949	MC705P6ACDWE	SOIC-28	4kB EPROM, 176b RAM, 4-ch 8-bit ADC, 20 I/O	5.35	4.41

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Part No.	Product No.	Pkg.	Description	1	10
854541	P80C31SBBB	PQFP-44	128 x 8 RAM ROMless, LV (2.7V-5.5V), LP, hi-speed (16MHz)	\$2.09	\$1.95
917337	P80C32UFAA	PLCC-44	128/256 byte RAM ROMless LV (2.7V-5.5V), LP, hi-speed (33MHz), I-temp	2.25	2.00
917361	P80C32UFBB	PQFP-44	128/256 byte RAM ROMless LV (2.7V-5.5V), LP, hi-speed (33MHz)	2.55	2.34
854575	P80C51FA-4A	PLCC-44	8-bit MCU, ROMLESS, LV (2.7V-5.5V), LP, hi-speed (16MHz)	6.15	5.72
854604	P80C552EFA	PLCC-68	8-bit, single chip w/ 10-bit A/D, timer, hi-speed (16MHz), I-temp	14.55	13.57
854639	P80C552IFA	PLCC-68	8-bit, single chip w/ 10-bit A/D, timer, hi-speed (24MHz), I-temp	15.09	14.07
854655	P80C557E4FB	PQFP-80	8-bit single chip, 3.5MHz, I-temp	21.29	19.86
854680	P80C592FFAA	PLCC-68	8-bit w/ on-chip CAN, 1.2MHz - 16MHz, w/o ROM, I-temp	22.89	21.35
854719	P87C51FA-4A	PLCC-64	8-bit, 8k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (16MHz)	7.55	7.03
854743	P87C51FA-5A	PLCC-44	8-bit, 3k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (0-16MHz)	8.35	7.76
854778	P87C51MB2A02-S	PLCC-44	8-bit w/ extended memory, 64kB/96kB OTP w/ 2kB/3kB RAM	7.85	7.39
854831	P87C51RA-1A	PLCC-44	8-bit, 8k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (33MHz)	5.35	4.96
854882	P87C51RD-4A	PLCC-44	8-bit, 64k x 8 OTP, LV (2.7V-5.5V), LP, hi-speed (16MHz)	23.65	20.30
854903	P87C52SBBB	QTP-44	8-bit, 4k/8k OTP/ROM, 128/256B RAM, LV (2.7V-5.5V), LP, hi-speed (16MHz)	3.55	3.28
854938	P87C554SFAA	PLCC-68	8-bit, 16k/15k OTP/ROM, 8-ch, 10-bit A/D, I2C PMW, I-temp	19.85	18.50
854962	P87C591VFAA	PLCC-44	Single chip 8-bit w/ CAN controller	9.59	9.05
917409	P87LPC762BD	SOIC-20	LP w/ 2kB OTP, 20MHz (5V) / 10MHz (3V)	2.39	2.23
854997	P87LPC764BDH	SOIC-20	LP w/ 4kB OTP, 20MHz (5V) / 10MHz (3V)	2.59	2.39

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855025	P87LPC769HD	SOIC-20	LP w/ 4kB OTP, 8-bit A/D & DAC, 20MHz (5V) / 10MHz (3V)	★	Call
855050	P89C660HBB	LQFP-44	8-bit, 16kB ISP/IAP flash, 512B RAM, 20MHz - 33MHz	9.49	8.86
855252	P89V51RD2FA	PLCC-44	8-bit, 5V LP, 64kB flash, 1kB RAM, I-temp	6.35	5.98
855279	P89V51RD2FBC	TQFP-44	8-bit, 5V LP, 64kB flash, 1kB RAM, I-temp	7.79	7.26
917652	PCF8582C2D	SOIC-8	256 x 8 CMOS EEPROM w/ I2C bus interface	1.04	.86
917687	PCF8583PN	DIP-8	Clock calendar w/ 240 x 8 RAM	3.45	3.14
917716	PCF8583TD	SOIC-8	Clock calendar w/ 240 x 8 RAM	2.19	2.13

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## 8-Bit MCU

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## 80C/87C MCU Series

Part No.	Product No.	Pkg.	Description	1	10
114403	DS80C320-MCG	DIP-40	High speed LP micro	\$12.09	\$9.27

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Part No.	Product No.	Pkg.	Description	1	10	100
700103	TMS320C203PZ80	TQFP-100	288 RAM, 256 data/program RAM, 64k I/O	\$13.39	\$12.99	\$12.54
700111	TMS320C25FNL	PLCC-68	544 RAM, 4k ROM/EPROM, 64k data/program	39.79	36.33	33.99
700138	TMS320C31PQL60	BQFP-132	32-bit floating point processor	69.99	65.99	61.21
700154	TMS320C32PCM60	QFP-144	Enhanced 32-bit floating point proc.	39.59	37.55	33.07
700162	TMS320C32PCMA50	QFP-144	Enhanced 32-bit floating point proc.	34.99	33.79	32.89
700189	TMS320C6201JC200	FC/CSP-352	Fixed-point DSP	156.99	153.99	149.13
700197	TMS320C6711DGP200	BGA-272	Floating-point DSP	30.99	30.59	29.99
700200	TMS320C6713BGP225	BGA-272	Floating-point DSP	47.99	46.99	45.99
700226	TMS320F240PQA	BQFP-132	DSP controller	27.99	26.39	25.59
700234	TMS320F2811PBKA	LQFP-128	Digital signal processor	27.99	26.69	25.99
700269	TMS320LF2406APZA	LQFP-100	DSP controller	15.99	15.13	14.75
700277	TMS320VC33PGE120	LQFP-144	32-bit floating point processor	19.99	19.39	18.89
700285	TMS320VC33PGEA120	LQFP-144	32-bit floating point processor	23.99	23.27	22.69
700293	TMS320VC5402PGE100	LQFP-144	Fixed-point DSP	12.59	11.25	10.15
700306	TMS320VC5409PGE100	LQFP-144	Fixed-point DSP	18.99	18.57	18.09
700331	TMS320VC5416PGE160	LQFP-144	Fixed-point DSP	49.95	48.65	47.39
700349	TMS320VC5441GGU	BGA-169	Fixed-point DSP	199.99	197.99	193.03
700357	TMS320VC5502PGF300	LQFP-176	Fixed-point DSP	17.15	16.67	16.25
700390	TMS32C6414EGLZA63	FCBGA-532	Fixed-point DSP	214.69	208.99	204.05
700402	TMS32C6415EGLZ63	FCBGA-532	Fixed-point DSP	193.99	188.69	183.99
700411	TMS32C6713BGDPA200	BGA-272	Floating-point DSP	48.99	47.85	46.59

## Z80 MPUs

Part No.	Product No.	Pkg.	Description	1	10	100
35561	Z80	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.67	\$1.43	\$1.31
35596	Z80A	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609	Z80A-CTC	DIP-28	4MHz counter timer circuit (MK3882-4)	2.19	1.97	1.75
35625	Z80A-DART	DIP-40	4MHz dual asynchronous receiver/trans	3.49	3.19	2.89
35641	Z80A-PIO	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	1.99	1.79	1.61
35668	Z80A-SIO/O	DIP-40	4MHz serial I/O (Tx/CB & Rx/CB bond.) MK3884-4	2.19	1.79	1.59
35705	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39	2.09
280428	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INT, INT	10.05	7.57	5.13
35781	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.98	4.19	3.06
280516	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.35	3.05	2.28
61786	Z85C3008PSC	DIP-40	Serial communications controller	4.99	4.57	3.92

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Details on page 1.

## 6500 Series

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43191	6502	DIP-40	CPU, 8-bit, 1MHz	\$5.75	\$4.89	\$4.16
43166	65C02	DIP-40	CPU, 8-bit, 1MHz	5.95	4.45	3.10
43254	6522	DIP-40	Versatile interface adapter, 1MHz	4.05	3.25	2.95
43297	6532	DIP-40	RAM I/O timer, 1MHz	7.95	6.99	6.49
43318	6551	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.36	2.52

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## 6800/68000 N-MOS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43481	6800	DIP-40	CPU, 8-bit, 5V, 2MHz	\$6.95	\$5.25	\$3.65
43502	6802	DIP-40	CPU, 8-bit, 5V, 1MHz	9.85	8.87	7.99
43529	6803	DIP-40	CPU, 8-bit, 5V, 1MHz	7.79	6.99	6.29
43537	MC6808	DIP-40	CPU, 8-bit, 7V, 1MHz	7.65	6.50	5.53
43545	6809E	DIP-40	CPU, 8-bit, 7V, 1MHz	4.39	3.99	3.61
320590	68B09E	DIP-40	CPU, 8-bit, 7V, 2MHz	4.74	4.04	3.03
43561	6810	DIP-24	SRAM, 1K-bit, 5V, 1MHz	3.54	3.18	2.87
43596	6821	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.59	3.25
43414	68B21	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49	4.05
43617	6840	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.49	2.25	1.99
43633	6850	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	3.09	2.69	2.42
25304	MC68000L8	DIP-64	CPU, 16-bit, 7V, 8MHz	10.05	8.90	8.12
25291	MC68000L10	DIP-64	CPU, 16-bit, 7V, 10MHz	13.45	11.49	8.59
25363	MC68705P3S	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95	20.65
25371	MC68705U3S	DIP-40	MCU, 8-bit, 20 I/O, 4MHz	26.95	22.94	20.65

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## 6800/68000 CMOS

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CMOS visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	\$10.65	\$8.70	\$7.86
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	11.39	9.18	8.27
698710	MC68HC16Z1CEH16	PQFP-132	MCU, 16-bit, 8/10-bit ADC, 16.78MHz	25.05	23.84	16.27
248647	MC68HC705CACFN	PLCC-44	MCU, 8-bit, 31 I/O, 4MHz	8.35	6.15	5.80
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	8.65	7.35	5.85
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	2.51	2.27	2.15
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	15.85	12.29	11.06
248428	MC68HC908KX8CP	DIP-16	MCU, 8-bit, 13 I/O, 8MHz	5.35	4.85	4.65

## 8000 N-MOS

Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844	8031	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$3.45	\$3.15	\$2.80
102197	8032	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.59	3.25
51861	8035	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.59	3.25
51959	8039	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	4.49	3.82	2.86
51983	8049	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	3.09	2.74	2.49
51991	8051AP	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	5.49	4.99	4.49
52003	8052AH	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	7.99	7.19	6.49
52046	8080A	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	5.25	4.62	4.20
52062	8085AH	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	5.69	5.12	4.55
52071	8085AH-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.49	4.99	4.49
52100	8086-2	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75	1.59
52142	8088	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.49	2.25	1.99
52169	8088-2	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	5.95	5.39	4.85
34358	UPD70108-8	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	10.99	9.34	7.01
52290	8155	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.82	2.86
52302	8155-2	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	5.95	5.39	4.85
52468	8212	DIP-24	I/O port timer, 8-bit, 3MHz	6.49	5.99	5.49
52492	8224	DIP-16	Clock generator/driver	2.95	2.49	2.25
52513	8228	DIP-28	System contr./bus driver	3.69	3.19	2.36
52581	8243	DIP-24	I/O expander	5.49	4.94	3.71
52644	8251	DIP-28	USART	2.99	2.69	2.39
52652	8251A	DIP-28	USART	4.09	3.80	3.49

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM ♣ Pull = Extra Savings ♣ Refurbished = Backed by Jameco

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## 8000 N-MOS (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
52679	8253♣	DIP-24	Prog. interval timer, 2MHz	\$3.19	\$2.89	\$2.59
52687	8253-5♣	DIP-24	Prog. interval timer, 2MHz	4.99	4.49	3.99
52708	8254♣	DIP-24	Prog. interval timer, 8MHz	4.79	4.27	3.84
52716	8254-2♣	DIP-24	Prog. interval timer, 8MHz	9.19	7.81	5.86
52724	8255♣	DIP-40	CPU peripheral, 2MHz	4.49	3.99	3.49
52732	8255A-5♣	DIP-40	CPU peripheral, 5MHz	4.89	4.39	3.05
291805	8255AC-5♣	DIP-40	CPU peripheral, 4MHz	4.89	4.39	2.89
52759	8256♣	DIP-40	UART	19.99	17.99	16.19
52775	8259♣	DIP-28	Prog. interrupt controller	1.75	1.55	1.45
52783	8259-5♣	DIP-28	Prog. interrupt controller	2.49	2.19	1.99
52839	8279♣	DIP-40	CPU peripheral, 5MHz	12.99	11.99	10.99
52847	8279-5♣	DIP-40	CPU peripheral, 5MHz	12.95	11.69	10.49
52855	8282♣	DIP-20	Octal latch bus driver	5.69	4.84	3.63
52871	8284A♣	DIP-18	Clock generator/driver, 8MHz	4.69	4.19	3.77
52898	8286	DIP-20	Octal bus transceiver	4.09	3.73	3.38
52901	8287	DIP-20	Octal bus transceiver	10.19	9.26	6.95
699624	P82B96TD♣	SOIC-8	Dual bidirectional bus buffer	3.15	3.10	2.80
53014	8742	DIP-40	MCU, 8-bit, 18 I/O, 12MHz	10.14	8.64	7.62
53022	8748♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	15.89	14.32	12.66
53031	8748H♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	17.69	16.11	14.44
53057	8749H♣	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	24.39	20.67	16.92
53081	8751H♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	21.25	18.06	15.35

♣ Pull = Extra Savings ♣ Refurbished = Backed by Jameco

## NXP / PHILIPS 8000 CMOS

For more NXP/Philips 8000 CMOS visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
699544	P80C31SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	\$2.09	\$1.68	\$1.47
699552	P80C31SBPN♣	DIP-40	MCU, 8-bit, 32 I/O, 16MHz	2.25	2.18	1.85
699561	P80C32SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	2.15	1.84	1.52
699579	P80C32SBPN♣	DIP-40	MCU, 8-bit, 32 I/O, 16MHz	2.69	2.62	2.54
699587	P80C32UBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 33MHz	2.15	2.09	2.03
699595	P80C552EBA♣	PLCC-68	MCU, 8-bit, 16MHz, 10-bit A/D	9.85	9.54	9.25
699608	P80C552IBA♣	PLCC-68	MCU, 8-bit, 24MHz, 10-bit A/D	10.25	9.92	9.63
699641	P87C51RB+4A♣	PLCC-44	MCU, 8-bit, four 8-bit I/O, 16MHz	5.39	5.25	4.28
699659	P87C51SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	2.69	2.50	2.11
699667	P87C51SBPN♣	DIP-40	MCU, 8-bit, 32 I/O, 16MHz	3.45	3.24	2.80
699675	P87C52SBAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	3.19	3.01	2.52
699683	P87C52FAAA♣	PLCC-44	MCU, 8-bit, 32 I/O, 16MHz	3.49	3.25	2.76
699721	P87LPC764BD♣	SOIC-20	MCU, low-power, 4kbyte OTP	2.25	2.17	1.83

## 8000 CMOS



Part No.	Cross Ref.	Pkg.	Description	1	10	100
51676	80C31♣	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	\$2.99	\$2.42	\$1.45
108804	80C32-1♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	4.49	3.85	2.89
51692	80C39♣	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	3.59	3.23	2.91
125647	80C52BASIC♣	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	32.75	29.47	26.51
51705	80C85A-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	7.25	6.55	5.85
52193	81C55♣	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.59	3.19
52370	82C51A♣	DIP-28	USART	3.95	3.50	3.04
52388	82C53-5	DIP-24	Prog. interval timer, 8MHz	3.65	3.10	2.64
52396	82C54	DIP-24	Prog. interval timer, 8MHz	3.66	3.12	2.34
52409	82C54-2	DIP-24	Prog. interval timer, 10MHz	4.49	4.05	3.59
52417	82C55A	DIP-40	CPU peripheral, 5MHz	4.99	4.49	3.99
52425	82C55A-5	DIP-40	CPU peripheral, 5MHz	4.59	4.07	3.56
52978	87C51♣	DIP-40	MCU, 8-bit, 32 I/O, 33MHz	21.99	18.69	14.02
196120	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	5.09	4.62	4.20

♣ Pull = Extra Savings ♣ Refurbished = Backed by Jameco

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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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## Voice Chips

### Single-Chip Voice Record/Playback Devices

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC) and clock source
- Typical 100k record cycles, 1µA standby current and 100 year message retention
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated
- 28-pin DIP



107334

Part No.	Product No.	Description	1	10	50
107334	ISD1420P	Voice record/playback (20 sec.)	\$6.85	\$5.75	\$4.65
120643	ISD2560P	Voice record/playback (60 sec.)	11.89	10.99	9.29
141655	ISD25120P	Voice record/playback (120 sec.)	11.75	9.58	9.44



### 80C52-Basic Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647	80C52BASIC♣	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$32.75	\$29.47	\$26.51

## Intel Ethernet Controllers

For more Intel Ethernet Controllers visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Part No.	Pkg.	Description	1	5
875923	FW82546EB♣	BGA-364	Dual port Gigabit ethernet controller	\$158.89	\$151.21
875940	FW82546GB♣	BGA-364	Dual port Gigabit ethernet controller	★	Call
875982	GD82559/S�3HD♣	BGA-196	Fast ethernet multifunction PCI/CardBus	★	Call
876002	GD82559ER♣	BGA-196	Fast ethernet PCI controller	22.99	21.89
876029	GD82559ER/S�3TU♣	BGA-196	Fast ethernet 10/100 PCI controller	★	Call
789241	GDŁT9785MBC.D0♣	BGA-196	8-port ethernet transceiver	26.20	24.95
789259	HL82571EB♣	FCBGA-256	PRO/1000 Gigabit ethernet controller	145.29	138.03
876061	NH82546GB♣	BGA-364	Dual port ethernet controller	★	Call
789451	RC82540EM♣	TFBGA-196	Gigabit ethernet controller	43.65	41.47
876176	RC82545GM♣	BGA-364	Gigabit ethernet controller	126.85	120.51
876230	SLXT970AOC♣	QFP-64	10/100 BaseT ethernet trans.	15.59	14.81
876299	WJŁT971ALE.A4♣	LQFP-64	100 BaseTX ethernet transceiver	10.05	9.55
876301	WJŁT972MLC.A4♣	LQFP-64	3.3V ethernet transceiver	5.95	5.65
875886	FW21154AE♣	BGA-304	PCI-PCI bridge, 64-bit, 33MHz	★	Call
875907	FW21154BE♣	BGA-304	PCI-PCI bridge, 64-bit, 66MHz	★	Call
875860	DA82562ET♣	SSOP-48	10/100 Mbps platform LAN connect	★	Call
789161	EELXT901APC.A4♣	PLCC-44	10BaseT transceiver	13.05	10.90
789380	PR21154BE ŁT79♣	BGA-304	PCI-PCI bridge, 64-bit, 33MHz	68.65	65.22

★ Please call or visit our website for minimum order quantity and pricing

## PARALLAX 50MIPS SX Microcontroller

Part No.	Parallax No.	Description	1	10	100
162931	SX28AC/DP♣	DIP-28 50MIPS SX microcontroller	\$4.99	\$4.89	\$4.79

## PARALLAX BASIC Stamp

They are ideal for controller apps including robotics, radio-controlled interfaces of a digital camera, industrial pallet stackers, health monitoring systems, and much more. The BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. It allows you to store data in the EEPROM before downloading a BASIC program.

- EEPROM: 2048 bytes
- Current draw @ 5V: 8mA run/100µA
- Microcontroller: PIC16C57
- Program speed: 4000/sec.
- # of I/O pins: 16 + 2 serial
- RAM: 32 bytes
- Volts required: 5-15VDC
- Size: 1.2"L x 0.6"W
- 24-pin DIP

Includes: Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Part No.	Parallax No.	1	10
130892	BS2-IC♣	\$48.95	\$43.95



See page 206 for Serial LCD Modules

# BASIC Stamp Controllers & EPROMs

Color Code Legend			
New	Sale	Lower\$	QtySave

Thousands of additional ICs are now available on our website.

## PARALLAX 50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.

- EEPROM program size: 2k x 8, 4,000 instructions
- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep
- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC

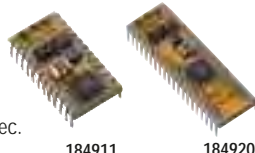


Part No.	Parallax No.	No. of I/O Pins	1	10
159775	BS2SX-IC 24-pin	16 + 2 serial	\$58.95	\$52.95

## PARALLAX BASIC Stamp 2P Modules

In addition to the BS2-SX (below) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Voltage requirements: 5-12VDC
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- EEPROM program size: 2k x 8, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep
- Scratch pad RAM: 128 bytes



Part No.	Parallax No.	No. of I/O Pins	1	10
184911	BS2P24-IC 24-pin	16 + 2 serial	\$78.95	\$70.95
184920	BS2P40-IC 40-pin	32 + 2 serial	88.15	79.30

## ST EPROMs

For more ST Micro EPROMs visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
698331	M27C64A-20F1	DIP-28	8k x 8	200ns, 5V	\$5.75	\$5.07	\$4.44
698349	M27C64A-20F6	DIP-28	8k x 8	200ns, 5V	3.69	3.59	3.49
698322	M27C64A-15F1	DIP-28	8k x 8	150ns, 5V	3.79	3.49	3.19
698111	M27C256B-15F1	DIP-28	32k x 8	150ns, 5V	2.29	2.11	1.99
698091	M27C256B-12F1	DIP-28	32k x 8	120ns, 5V	2.75	2.67	2.58
698103	M27C256B-12F6	DIP-28	32k x 8	120ns, 5V	3.09	2.68	2.45
698082	M27C256B-10F1	DIP-28	32k x 8	100ns, 5V	3.09	2.68	2.61
698138	M27C256B-90F6	DIP-28	32k x 8	90ns, 5V	3.09	2.68	2.00
698120	M27C256B-70XF1	DIP-28	32k x 8	70ns, 5V	3.59	3.30	3.02
698218	M27C512-10F1	DIP-28	64k x 8	100ns, 5V	2.85	2.67	2.55
698306	M27C512-90F1	DIP-28	64k x 8	90ns, 5V	2.39	2.33	2.26
698314	M27C512-90F6	DIP-28	64k x 8	90ns, 5V	2.39	2.33	2.26
698277	M27C512-70XF1	DIP-28	64k x 8	70ns, 5V	3.15	2.74	2.40
698251	M27C512-45XF1	DIP-28	64k x 8	45ns, 5V	4.89	4.56	4.17
698234	M27C512-15F1	DIP-28	64k x 8	150ns, 5V	3.39	3.17	2.88
698242	M27C512-15F6	DIP-28	64k x 8	150ns, 5V	3.25	2.74	2.14
698226	M27C512-12F1	DIP-28	64k x 8	120ns, 5V	2.85	2.67	2.55
697987	M27C1001-15F1	DIP-32	128k x 8	150ns, 5V	3.99	3.72	3.46
697961	M27C1001-12F1	DIP-32	128k x 8	120ns, 5V	3.79	3.31	3.23
697979	M27C1001-12F6	DIP-32	128k x 8	120ns, 5V	3.99	3.60	3.23
697944	M27C1001-10F1	DIP-32	128k x 8	100ns, 5V	3.79	3.67	3.54
698007	M27C1001-70F1	DIP-32	128k x 8	70ns, 5V	3.79	3.31	3.22
697995	M27C1001-45XF1	DIP-32	128k x 8	45ns, 5V	5.95	5.60	5.20
698058	M27C2001-15F1	DIP-32	256k x 8	150ns, 5V	5.25	4.75	4.23
698031	M27C2001-12F1	DIP-32	256k x 8	120ns, 5V	4.45	4.29	4.04
698040	M27C2001-12F6	DIP-32	256k x 8	120ns, 5V	4.89	4.79	4.43
698023	M27C2001-10F1	DIP-32	256k x 8	100ns, 5V	5.15	4.45	3.90
698066	M27C2001-70XF1	DIP-32	256k x 8	70ns, 5V	8.15	7.62	7.09
698197	M27C4002-10F1	DIP-40	256k x 8	100ns, 5V	9.49	8.93	8.36
698200	M27C4002-12F1	DIP-40	256k x 8	120ns, 5V	9.65	9.04	8.42
698171	M27C4001-15F1	DIP-32	512k x 8	150ns, 5V	6.05	5.44	4.84
698154	M27C4001-12F1	DIP-32	512k x 8	120ns, 5V	5.89	5.40	4.98
698146	M27C4001-10F1	DIP-32	512k x 8	100ns, 5V	7.25	6.57	5.91
698189	M27C4001-80XF1	DIP-32	512k x 8	80ns, 5V	6.05	5.51	5.47
698357	M27C801-100F1	DIP-32	1M x 8	100ns, 5V	4.59	4.34	4.09

## EPROM Accessories

Part No.	Cross Ref.	Description	1	5
13864	CF2	Conductive foam (12" x 24" x .25") hard black	\$9.29	\$8.35
15712	DE4	8-chip UV-EPROM eraser, pg 240	106.85	101.49

For additional EPROM programmers & erasers see pages 240 & web.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## EPROMs

Please Note: Manufacturer May Vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39909	2708	DIP-24	1k x 8	450ns, 5V	\$5.99	\$5.15	\$3.83
33611	TMS2716	DIP-24	2k x 8	450ns, 5V	2.25	1.99	1.79
40002	2716	DIP-24	2k x 8	450ns, 5V	4.09	3.69	3.29
308662	2716A-2	DIP-24	2k x 8	200ns, 5V	5.19	4.41	3.75
40011	2716-1	DIP-24	2k x 8	350ns, 5V	6.49	5.89	5.39
265931	27C16-200	DIP-24	2k x 8	200ns, 5V	3.99	3.39	2.54
265965	27C16-150	DIP-24	2k x 8	150ns, 5V	6.15	5.20	3.90
40096	2732	DIP-24	4k x 8	450ns, 5V	7.39	6.25	4.78
39765	27C32	DIP-24	4k x 8	450ns, 5V	6.59	5.94	5.34
40133	2732A-45	DIP-24	4k x 8	450ns, 5V	3.99	3.69	3.29
33591	TMS2532	DIP-24	4k x 8	450ns, 5V	3.99	3.59	3.19
114876	2732B	DIP-24	4k x 8	450ns, 5V	4.19	3.79	3.39
40125	2732A-25	DIP-24	4k x 8	250ns, 5V	4.99	4.49	3.99
40109	2732A-20	DIP-24	4k x 8	200ns, 5V	6.49	5.99	5.49
265990	27C32-200	DIP-24	4k x 8	200ns, 5V	5.99	4.99	3.99
266001	27C32-150	DIP-24	4k x 8	150ns, 5V	6.99	5.99	4.99
40205	2764-25	DIP-28	8k x 8	250ns, 5V	4.75	4.30	3.85
40248	2764A-25	DIP-28	8k x 8	250ns, 5V	3.99	3.69	3.09
39845	27C64-25	DIP-28	8k x 8	250ns, 5V	4.05	3.65	3.40
40192	2764-20	DIP-28	8k x 8	200ns, 5V	5.59	5.08	4.55
40230	2764A-20	DIP-28	8k x 8	200ns, 5V	4.49	4.09	3.69
74608	27C64-20	DIP-28	8k x 8	200ns, 5V	4.15	3.60	3.44
39829	27C64-15	DIP-28	8k x 8	150ns, 5V	3.95	3.63	3.10
105304	27C64-12	DIP-28	8k x 8	120ns, 5V	3.29	2.98	2.71
266036	27C64-100	DIP-28	8k x 8	100ns, 5V	4.09	3.59	2.69
266044	27C64-70	DIP-28	8k x 8	70ns, 5V	4.85	4.12	3.70
39933	27128-25	DIP-28	16k x 8	250ns, 5V	5.15	4.79	4.19
39984	27128A-25	DIP-28	16k x 8	250ns, 5V	4.59	4.17	3.76
39685	27C128-25	DIP-28	16k x 8	250ns, 5V	4.25	3.81	3.49
39968	27128A-20	DIP-28	16k x 8	200ns, 5V	4.39	3.90	3.54
101101	27C128-20	DIP-28	16k x 8	200ns, 5V	4.39	3.95	3.56
39950	27128A-15	DIP-28	16k x 8	150ns, 5V	4.05	3.60	3.25
39677	27C128-15	DIP-28	16k x 8	150ns, 5V	5.15	4.67	4.19
87935	27C128-12	DIP-28	16k x 8	120ns, 5V	4.89	4.16	3.14
266061	27C128-100	DIP-28	16k x 8	100ns, 5V	4.39	3.86	3.50
149665	27C128-70	DIP-28	16k x 8	70ns, 5V	4.89	4.16	3.12
40061	27256-25	DIP-28	32k x 8	250ns, 5V	3.19	2.99	2.69
39731	27C256-25	DIP-28	32k x 8	250ns, 5V	3.83	3.59	3.23
40045	27256-20	DIP-28	32k x 8	200ns, 5V	3.39	2.96	2.69
39722	27C256-20	DIP-28	32k x 8	200ns, 5V	3.11	2.99	2.63
40037	27256-15	DIP-28	32k x 8	150ns, 5V	3.45	3.25	2.93
39714	27C256-15	DIP-28	32k x 8	150ns, 5V	2.09	1.79	1.59
65904	27C256-12	DIP-28	32k x 8	120ns, 5V	2.09	1.99	1.79
112740	27C256-10	DIP-28	32k x 8	100ns, 5V	2.95	2.80	2.35
266079	27C256-55	DIP-28	32k x 8	55ns, 5V	4.15	3.93	3.18
40168	27512-25	DIP-28	64k x 8	250ns, 5V	3.69	3.39	3.09
39802	27C512-25	DIP-28	64k x 8	250ns, 5V	4.75	4.39	3.95
40150	27512-20	DIP-28	64k x 8	200ns, 5V	2.69	2.39	2.19
39790	27C512-20	DIP-28	64k x 8	200ns, 5V	3.71	3.47	3.11
39781	27C512-15	DIP-28	64k x 8	150ns, 5V	2.29	2.05	1.79
39773	27C512-12	DIP-28	64k x 8	120ns, 5V	2.15	2.04	1.69
131959	27C512-10	DIP-28	64k x 8	100ns, 5V	3.05	2.89	2.16
175206	27C512-90	DIP-28	64k x 8	90ns, 5V	1.85	1.76	1.66
203625	27C512-70	DIP-28	64k x 8	70ns, 5V	2.69	2.37	1.79
203617	27C512-45	DIP-28	64k x 8	45ns, 5V	2.69	2.29	1.72
118148	27C1024-15	DIP-40	64k x 16	150ns, 5V	5.29	4.79	4.39
203641	27C1024-12	DIP-40	64k x 16	120ns, 5V	6.15	5.23	3.92
39669	27C010-20	DIP-32	128k x 8	200ns, 5V	2.09	1.87	1.54
39651	27C010-15	DIP-32	128k x 8	150ns, 5V	2.15	1.79	1.52
74624	27C010-12	DIP-32	128k x 8	120ns, 5V	1.99	1.90	1.70
79231	27C010-10	DIP-32	128k x 8	100ns, 5V	2.09	1.75	1.60
137699	27C010-80	DIP-32	128k x 8	80ns, 5V	5.15	4.61	4.09
146149	27C010-70	DIP-32	128k x 8	70ns, 5V	2.49	2.29	2.09
65699	27C020-15	DIP-32	256k x 8	150ns, 5V	5.29	4.99	4.49

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## EPROMs (Continued)

Please Note: Manufacturer May Vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
78852	27C020-12	DIP-32	256k x 8	120ns, 5V	\$4.35	\$4.15	\$3.95
156267	27C020-10	DIP-32	256k x 8	100ns, 5V	2.85	2.65	2.18
127933	27C4096-12	DIP-40	256k x 16	120ns, 5V	6.95	5.95	5.35
85462	27C040-15	DIP-32	512k x 8	150ns, 5V	5.05	4.35	3.75
102293	27C040-12	DIP-32	512k x 8	120ns, 5V	5.05	4.35	3.75
111780	27C040-10	DIP-32	512k x 8	100ns, 5V	5.05	4.35	3.75
203676	27C040-80	DIP-32	512k x 8	80ns, 5V	5.29	5.24	5.19
266124	27C040-70	DIP-32	512k x 8	70ns, 5V	3.45	3.26	3.10
140003	27C080-12	DIP-32	1M x 8	120ns, 5V	10.05	9.50	8.50
156275	27C080-10	DIP-32	1M x 8	100ns, 5V	5.99	5.29	3.97
203684	27C080-90	DIP-32	1M x 8	90ns, 5V	10.85	10.15	7.61

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## OTP/PROMs

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
48717	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	\$8.15	\$7.03	\$6.04
27844	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.99	5.39	4.89
27764	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	11.39	10.92	10.38
48696	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	14.35	12.90	11.63
48805	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.09	2.95	2.80
27772	N82S126	DIP-16	256 x 4	1-kbit, 5V, 50ns, PROM	9.35	8.15	7.10
27781	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	10.55	10.02	8.79
27810	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	6.59	5.59	4.89
27836	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	9.15	7.99	7.29
394986	AT27C56R-45PI	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	2.59	2.29	1.99
395049	AT27C512R-45PI	DIP-28	64k x 8	512-kbit, 5V, 45ns, OTP	1.09	.95	.89
395081	AT27C512R-70PI	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	1.35	1.17	.99
698269	M27C512-70CS	PLCC-32	64k x 8	512-kbit, 5V, 70ns, OTP	1.69	1.42	1.19
698285	M27C512-90B6	DIP-28	64k x 8	512-kbit, 5V, 90ns, OTP	1.65	1.38	1.16
203692	27C512-12 OTP	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	2.09	1.78	1.33
394708	AT27C010-70PI	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	1.49	1.40	1.33
698015	M27C1001-10B1	DIP-32	128k x 8	1-Mbit, 5V, 100ns, OTP	2.59	2.34	1.94
697936	M27C2001-10B1	DIP-32	256k x 8	2-Mbit, 5V, 100ns, OTP	1.89	1.79	1.59
698365	M27W401-80K6	PLCC-32	512k x 8	2-Mbit, 5V, 100ns, OTP	4.05	3.56	3.12

## EEPROMs



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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
846284	AT93C46A-10PU-27	DIP-8	64 x 16	3-wire serial, 2.7V - 5.5V, I-temp.	\$ .63	\$ .49	\$ .353
763905	AT93C46A-10SU-18	SOIC-8	64 x 16	3-wire serial, 1.8V - 5.5V, I-temp.	1.29	1.20	1.12
846313	AT93C46A-10SU-27	SOIC-8	64 x 16	3-wire serial, 2.7V - 5.5V, I-temp.	.63	.296	.275
844086	AT24C11-10PU-27	DIP-8	128 x 8	2-wire serial, 2.7V, I-temp.	.61	.475	.342
763884	AT93C46-10PU-18	DIP-28	128 x 8	3-wire serial, 1.8V - 5.5V, I-temp.	.69	.495	.375
846188	AT93C46-10PU-27	DIP-8	128 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.63	.49	.353
846217	AT93C46-10SU-27	SOIC-8	128 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.63	.49	.353
844431	AT25010AN-10SU-27	SOIC-8	128 x 8	SPI serial, 2.7V, I-temp.	.83	.65	.464
762110	AT24C02B-10PU-18	DIP-8	256 x 8	2-wire serial, 1.8V, I-temp.	.75	.58	.44
843884	AT24C02BN-10SU-18	SOIC-8	256 x 8	2-wire serial, 1.8V, I-temp.	.79	.62	.441
846364	AT93C6A-10SU-27	SOIC-8	256 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.73	.369	.345
844465	AT25020AN-10SU-27	SOIC-8	256 x 8	SPI serial, 2.7V, I-temp.	.83	.65	.464
843913	AT24C04-10PU-27	DIP-8	512 x 8	2-wire serial, 2.7V, I-temp.	.75	.59	.419
762136	AT24C04A-10TU-27	TSSOP-8	512 x 8	2-wire serial, 2.7V, I-temp.	★	Call	Call
843972	AT93C46-10SU-27	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp.	.73	.68	.418
762152	AT24C04N-10SU-18	SOIC-8	512 x 8	2-wire serial, 1.8V, I-temp.	.79	.62	.441
844001	AT24C04M-10SU-27	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp.	.75	.59	.419
846399	AT93C46-10PU-27	DIP-8	512 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.77	.57	.43
846428	AT93C6A-10SU-27	SOIC-8	512 x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.79	.413	.386
762347	AT25040AN-10SU-18	SOIC-8	512 x 8	SPI serial, 1.8V, I-temp.	.91	.71	.508
844490	AT25040AN-10SU-27	SOIC-8	512 x 8	SPI serial, 2.7V, I-temp.	.81	.64	.48
844035	AT24C08AN-10SU-27	SOIC-8	1k x 8	2-wire serial, 2.7V, I-temp.	.81	.63	.453

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## EEPROMs (Continued)

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
844529	AT25080AN-10SU-27	SOIC-8	1k x 8	SPI serial, 2.7V, I-temp.	\$ .80	\$ .67	\$ .53
844414	AT24HC02BN-10SU-18	SOIC-8	2k x 8	2-wire serial, 1.8V, I-temp.	.80	.61	.46
763964	AT93C86A-10SU-27	SOIC-8	2k x 8	3-wire serial, 2.7V - 5.5V, I-temp.	.95	.531	.496
762427	AT25160AN-10SU-18	SOIC-8	2k x 8	SPI serial, 1.8V, I-temp.	.92	.76	.61
844561	AT25160AN-10SU-27	SOIC-8	2k x 8	SPI serial, 2.7V, I-temp.	.89	.74	.59
844730	AT25320AN-10SU-27	SOIC-8	4k x 8	SPI serial, 2.7V, I-temp.	1.13	.94	.75
844385	AT24C48BN-10SU-27	SOIC-8	8k x 8	2-wire serial, 2.7V, I-temp.	1.30	1.22	1.14
762591	AT28BV64B-20SI	SOIC-28	8k x 8	Parallel, 2.7V - 3.6V, I-temp.	9.39	6.29	5.69
762638	AT28C64-12PC	DIP-28	8k x 8	Parallel, 5V, Com-temp.	13.55	12.63	11.84
762654	AT28C64-15PC	DIP-28	8k x 8	Parallel, 5V, Com-temp.	9.69	9.49	9.29
762671	AT28C64-25PI	DIP-28	8k x 8	Parallel, 5V, I-temp.	13.99	13.69	13.39
845100	AT28C64B-15JI	PLCC-32	8k x 8	Parallel, 5V, I-temp.	2.95	2.73	2.56
762697	AT28C64B-15JU	PLCC-32	8k x 8	Parallel, 5V, I-temp.	4.99	3.99	3.14
762718	AT28C64B-15SI	SOIC-28	8k x 8	Parallel, 5V, I-temp.	5.59	5.29	4.99
762814	AT28HC64B-12JU	PLCC-32	8k x 8	Hi-speed parallel, 5V, I-temp.	5.03	3.94	3.28
762486	AT25640A-10PU-27	DIP-8	8k x 8	SPI serial, 2.7V, I-temp.	1.50	1.26	1.01
762507	AT25640AN-10SU-18	SOIC-8	8k x 8	SPI serial, 1.8V, I-temp.	1.31	1.09	.87
844764	AT25640AN-10SU-27	SOIC-8	8k x 8	SPI serial, 2.7V, I-temp.	1.28	1.07	.85
762179	AT24C12B-10PU-27	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.28	1.07	.85
844115	AT24C12BN-10SU-27	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.28	1.07	.85
762195	AT24C12BN-10SU-27	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp.	1.28	1.07	.85
844545	AT25128AN-10SU-27	SOIC-8	16k x 8	SPI serial, 2.7V, I-temp.	1.39	1.17	.83
762363	AT25128A-10PU-27	DIP-8	16k x 8	SPI serial, 2.7V, I-temp.	1.45	1.07	.87
762443	AT25256A-10TU-18	TSSOP-8	32k x 8	SPI serial, 1.8V, I-temp.	★	Call	Call
844596	AT25256A-10PU-27	DIP-8	32k x 8	SPI serial, 2.7V, I-temp.	1.89	1.51	1.13
844641	AT25256AN-10SU-27	SOIC-8	32k x 8	SPI serial, 2.7V, I-temp.	1.89	1.51	1.13
762460	AT25256AN-10SU-18	SOIC-8	32k x 8	SPI serial, 1.8V, I-temp.	1.95	1.53	1.15
844713	AT25256AN-10SU-27	SOIC-8	32k x 8	SPI serial, 2.7V, I-temp.	1.89	1.51	1.13
762267	AT24C256B-10TU-18	TSSOP-8	32k x 8	2-wire serial, 1.8V, I-temp.	★	Call	Call
845003	AT28C256-15JI	PLCC-32	32k x 8	Paged parallel, 5V, I-temp.	6.15	5.93	5.75
762611	AT28C256-15JU	PLCC-32	32k x 8	Paged parallel, 5V, I-temp.	6.69	5.35	4.57
845054	AT28C256-15PI	DIP-28	32k x 8	Paged parallel, 5V, I-temp.	11.99	11.75	11.39
762304	AT24C512-10PU-27	DIP-8	64k x 8	2-wire serial, 2.7V, I-temp.	2.75	2.21	1.83
844271	AT24C512N-10SU-27	SOIC-8	64k x 8	2-wire serial, 2.7V, I-temp.	2.35	1.87	1.40
843673	AT17LV128-10PC	DIP-8	128k x 1	128k-bit config eeprom mem., C-temp.	12.75	11.80	11.02
843702	AT17LV256-10PC	DIP-8	256k x 1	256k-bit config eeprom mem., C-temp.	13.35	12.39	11.57
843711	AT17LV512-10JC	PLCC-20	524k x 1	1-bit, serial, 3.3V & 5V System, Com. temp.	19.15	19.07	18.98
762099	AT17F080-30JI	PLCC-20	8M x 1	Config flash, I-temp.	54.85	50.91	47.52

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
697856	M24C02-WBN6P	SO-8	256 x 8	2.5-5.5V, 2-kbit serial I <sup>2</sup> C bus	★	\$ .242	\$ .235
697864	M24C02-WMN6P	SO-8	256 x 8	2.5-5.5V, 2-kbit serial I <sup>2</sup> C bus	.71	.70	.63
697881	M24C04-WMN6P	SO-8	512 x 8	2.5-5.5V, 4-kbit serial I <sup>2</sup> C bus	.90	.79	.69
697901	M24C16-WMN6P	SO-8	2k x 8	2.5-5.5V, 16-kbit serial I <sup>2</sup> C bus	★	.256	.237

## MICROCHIP EEPROM - Serial

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
790866	24LC00/P	DIP-8	16 x 8	128-bit I <sup>2</sup> C bus, 2.5V	★	\$ .31	\$ .28
791244	93C46B-I/SN	SOIC-8	64 x 16	1k microwire, 5V, I-temp, w/o pin	★	.357	.345
791261	93C46B/SN	SOIC-8	64 x 16	1k microwire, 5V, w/out org pin	★	.344	.323
791332	93LC46B-I/P	DIP-8	64 x 16	1k microwire, 2.5V, I-temp.	★	.38	.33
791367	93LC46B-I/ST	TSSOP-8	64 x 16	1k microwire, 2.5V, I-temp.	★	.41	.37
791383	93LC46B/P	DIP-8	64 x 16	1k microwire, 2.5V	★	.36	.328
791287	93C46C-I/P	DIP-8	128 x 8	1k microwire, 5V, I-temp, w/ org pin	★	.378	.345
791308	93LC46S/SN	SOIC-8	128 x 8	1k microwire, 2.5V, w/ org pin	★	.53	.483
791324	93LC46A-I/SN	SOIC-8	128 x 8	1k microwire, 2.5V, I-temp.	★	.37	.362
791404	93LC46C-I/SNG	SOIC-8	128 x 8	1k microwire, 2.5V, I-temp, w/ pin	★	.36	.345

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
790946	24LC01B/P	DIP-8	128 x 8	1k I2C, 2.5V	3.41	3.31	
790903	24LC01B-I/P	DIP-8	128 x 8	1k I2C, 2.5V, I-temp.	36	366	
790920	24LC01B-I/SN	SOIC-8	128 x 8	1k I2C, 2.5V, I-temp.	39	328	
790882	24LC014-I/MS	MSOP-8	128 x 8	1k I2C, 2.5V, I-temp.	51	50	49
791447	93LC56B/P	DIP-8	128 x 16	2k microwire, 2.5V	398	362	
790962	24LC02B-I/SNG	SOIC-8	256 x 8	2k I2C, 2.5V, I-temp.	50	454	45
695834	24LC16B-I/SN	SOIC-8	256 x 8	5V, 400kHz	59	55	524
791421	93LC56-I/SN	SOIC-8	256 x 8	2k microwire, 2.5V, I-temp.	79	73	67
790989	24LC04B-I/ST	TSSOP-8	2x256x8	4k I2C, 2.5V, I-temp.	46	448	
791463	93LC66B/P	DIP-8	256 x 16	4k microwire, 2.5V	52	474	431
791480	93LC66C-I/SNG	SOIC-8	256 x 16	4k microwire, 2.5V, I-temp.	43	415	
791172	25C080/SN	SOIC-8	1k x 8	8k SPI bus, 3MHz, 5V	1.17	97	69
791501	93LC86-I/SN	SOIC-8	2k x 8	16k microwire, I-temp.	1.33	1.03	.73
791041	24LC32A-I/P	SOIC-8	4k x 8	32k I2C, 2.5V	.79	.72	.66
791076	24LC32A/SN	DIP-8	4k x 8	32k I2C, 2.5V, I-temp.	.81	.74	.68
791201	25C320/SN	SOIC-8	4k x 8	32k SPI bus, 3MHz, 5V	1.35	1.23	1.12
695931	24LC64-I/P	DIP-8	8k x 8	5V, 400kHz	.89	.84	.80
791092	24LC64-I/SM	SOIC-8	8k x 8	64k I2C, 2.5V, I-temp.	.97	.88	.80
695957	24LC64-I/SN	SOIC-8	8k x 8	5V, 400kHz	.89	.86	.81
791113	24LC64-I/SNG	SOIC-8	8k x 8	64k I2C, 2.5V, I-temp.	.94	.85	.78
790840	24C65/P	DIP-8	8k x 8	64k I2C Smart, 4.5V to 6V, 400kHz	2.65	2.20	1.75
791130	24LC65-I/P	DIP-8	8k x 8	64k I2C Smart, 2.5V - 6V, 100/400kHz	2.49	2.33	2.14
695973	25LC640-I/SN	SOIC-8	8k x 8	5V, 2MHz	.99	.93	.89
791228	25LC640-I/SNG	SOIC-8	8k x 8	64k SPI bus, 32.5MHz, 2.5V, I-temp.	.89	.87	.85
791009	24LC128-I/P	DIP-8	16k x 8	128k I2C CMOS, 2.5V, I-temp.	1.21	1.20	1.19
695818	24LC128-I/SN	SOIC-8	16k x 8	5V, 400kHz	1.45	1.36	1.29
695851	24LC256-I/SM	SOIC-8	32k x 8	5V, 400kHz	★	Call	Call
695877	24LC256-I/SN	SOIC-8	32k x 8	5V, 400kHz	2.05	1.92	1.83
695914	24LC515-I/SM	SOIC-8	64k x 8	5V, I <sup>2</sup> C CMOS	3.39	3.23	3.07

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## EEPROMs

Please Note: Manufacturer May Vary

★ Blue Part No. = Limited Quantity Available

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
200627	24C44	DIP-8	16 x 16	Serial, 5V	1.99	1.69	1.26
102058	93C46	DIP-8	64 x 16	3-wire serial, 2.5V	.43	.32	.24
200598	93C66	DIP-8	256 x 16	3-wire Serial, 2.5V	.37	.34	.29
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2.5V	.71	.57	.53
200547	24C08-10	DIP-8	1k x 8	2-wire serial, 2.5V	.79	.72	.65
276681	24C16	SOIC-8	2k x 8	2-wire serial, 2.5V	.25	.213	.207
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V	1.18	1.00	.75
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	3.99	3.69	3.39
40416	2817A-25	DIP-28	2k x 8	Page parallel, 5V	7.15	6.45	5.85
200619	24C65	DIP-8	8k x 8	2-wire serial, 2.5V	2.58	2.05	1.92
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	4.45	3.80	3.65
40475	2865A	DIP-28	8k x 8	5V	4.95	4.49	4.05
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2.5V	2.35	1.90	1.70
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V	8.25	7.01	5.26
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V	8.99	6.89	6.19
276832	24C512	DIP-8	64k x 8	2-wire serial, 2.5V	2.15	2.08	1.91
276912	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V	6.65	5.18	4.77

## Configuration Devices

For more Altera EEPROMs visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
1721854	EPC1064PC8	DIP-8	65, 536 Memory bits, 5V, C-temp	10.85	10.10	9.47
1721889	EPC1441LC20N	PLCC-20	440,800 Mem. bits, 5V or 3.3V, C-temp	6.89	6.43	6.03
1721897	EPC1441PC8	DIP-8	440,800 Mem. bits, 5V or 3.3V, C-temp	6.89	6.43	6.03
1721951	EPC1P18N	DIP-8	1,046,496 Mem. bits, 5V or 3.3V, I-temp	30.55	28.47	26.69



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★ RoHS compliant product    ★ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    [Details on page 1.](#)

## MICROCHIP PICDEM™ USB Demo Board

The PICDEM FS USB demonstration kit is designed as an easy-to-use evaluation platform for Microchip's full speed USB solution. The devices in Microchip's new family of USB microcontrollers fully support USB2.0 and serial communications of up to 12Mbps/s. This kit provides all of the hardware and software needed to demonstrate and develop a complete USB communication solution. The microcontroller for the PICDEM board is the PIC18F4550, the principal device of the PIC18F2455/2550/4455/4550 family. All of these devices implement power-saving nano-watt technology, enhanced flash program memory and feature USB modules with:

- Full-speed (12Mbit/s) and low-speed (1.5Mbit/s) operation
- Support of control, interrupt, bulk and isochronous transfers
- On-chip features for a true-single chip USB implementation
- 1kbyte of dual-access RAM for USB
- USB 2.0 compliance
- Interface for off-chip USB transceiver
- Support of up to 32 end points

Part No.	Product No.	Description	1	10	100
697207	DM163025	USB demo board	\$91.09	\$86.76	\$82.63

## MICROCHIP PICkit™ 2 Microcontroller Starter Kit

The PICkit™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICkit™ 2 microcontroller programmer, USB cable and CD ROM.

Part No.	Product No.	Description	1	10	100
697338	DV164120	Programmer starter kit	\$75.95	\$72.29	\$68.86

## NXP / PHILIPS Controller Interface

For more NXP Controller Interface visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
699780	PCA82C250N	DIP-8	CAN controller interface, 1 Mbaud	1.89	1.82	1.75
699798	PCA82C250TD	SOIC-8	CAN controller interface, 1 Mbaud	1.55	1.51	1.47
699801	PCA82C251TD	SOIC-8	CAN transceiver for 24V systems	1.55	1.51	1.47

NXP / PHILIPS I<sup>2</sup>C & SMBusFor more NXP I<sup>2</sup>C & Bus visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
917441	PCA9500PW	TSSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ 2-kbit EEPROM	1.95	1.57	1.38
917476	PCA9501PW	TSSOP-20	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt, 2-kbit EEPROM	1.98	1.67	1.47
917505	PCA9551PW	TSSOP-16	8-bit I <sup>2</sup> C LED driver w/ programmable blink rates	1.65	1.37	1.21
917530	PCA9552PW	TSSOP-24	16-bit I <sup>2</sup> C bus LED driver w/ prog. blink rates	2.19	1.76	1.55
855332	PCA9554ADB	SSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.55	1.29	1.14
699819	PCA9554D	SOIC-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.59	1.55	1.50
855367	PCA9554APW	TSSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.55	1.29	1.14
699827	PCA9554PW	TSSOP-16	8-bit I <sup>2</sup> C SMBUS I/O port w/ interrupt	1.59	1.54	1.50
699835	PCA9555DB	SSOP-24	16-bit I <sup>2</sup> C SMBus I/O port w/ interrupt	1.89	1.70	1.53
699851	PCA9555PW	TSSOP-24	16-bit I <sup>2</sup> C SMBus I/O port w/ interrupt	1.49	1.44	1.40
917564	PCA9556PW	TSSOP-16	Octal SMBUS & I <sup>2</sup> C registered interface	1.94	1.61	1.42
855383	PCA9633D16	SOIC-16	4-bit I <sup>2</sup> C bus LED driver	1.35	1.12	.99

## ATMEL Flash Memory – Data

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Part No.	Product No.	Pkg.	Description	1	10	100
763286	AT45DB011B-CC	CBGA-9	1M-bit, 2.7V, Com-temp.	2.09	1.89	1.73
763307	AT45DB011B-XC	TSSOP-14	1M-bit, 2.7V, Com-temp.	★	Call	Call
763323	AT45DB011B-XL	TSSOP-14	1M-bit, 2.7V, I-temp.	1.48	1.33	1.23
845505	AT45DB011B-SC	SOIC-8	1M-bit, 2.7V, Com-temp.	2.45	2.09	1.76
845556	AT45DB011B-SU	SOIC-8	1M-bit, 2.7V, I-temp.	1.37	1.10	.81
845741	AT45DB642D-TU	TSSOP-28	Dual interface, 64M-bit, 2.7V, I-temp	11.09	10.33	9.69

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## Flash Memory – SPI/ISP

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
844895	AT25F128H-10SU-27	SOIC-8	64k x 8	SPI serial, 512k-bit, 2.7V, I-temp.	\$1.36	\$1.09	\$ .87
844799	AT25F128H-10SU-27	SOIC-8	128k x 8	SPI serial, 1M-bit, 2.7V, I-temp.	1.55	1.24	1.00
844836	AT25F040H-10SU-27	SOIC-8	256k x 8	SPI serial, 2M-bit, 2.7V, I-temp.	1.85	1.79	1.69
844861	AT25F096H-10SU-27	SOIC-8	512k x 8	SPI serial, 4M-bit, 2.7V, I-temp.	2.29	1.85	1.71

## Flash Memory

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
763091	AT29C512-70TC	TSOP-32	64k x 8	70ns, 5V, Com.-temp.	\$2.39	\$2.23	\$2.09
845273	AT29C512-90JC	PLCC-32	64k x 8	90ns, 5V, Com.-temp.	2.65	2.29	1.97
845302	AT29C512-90JJ	PLCC-32	64k x 8	90ns, 5V, I-temp.	2.39	2.19	1.84
763112	AT29C512-90TI	TSOP-32	64k x 8	90ns, 5V, I-temp.	2.29	1.90	1.68
763227	AT29LV512-15TU	TSOP-32	64k x 8	150ns, 3.3V, I-temp.	2.59	2.12	1.68
762857	AT29BV010A-15JJ	PLCC-32	128k x 8	150ns, 2.7V-3.6V, I-temp.	2.59	1.97	1.88
762953	AT29C010A-70JU	PLCC-32	128k x 8	70ns, 5V, I-temp.	2.59	2.26	1.89
845185	AT29C010A-90JC	PLCC-32	128k x 8	90ns, 5V, Com.-temp.	3.85	2.57	2.17
845214	AT29C010A-90JJ	PLCC-32	128k x 8	90ns, 5V, I-temp.	5.35	4.69	4.57
762970	AT29C010A-90JU	PLCC-32	128k x 8	90ns, 5V, I-temp.	2.95	2.36	1.89
762996	AT29C010A-90TC	TSOP-32	128k x 8	90ns, 5V, Com.-temp.	2.69	2.50	2.35
763016	AT29C010A-90TI	TSOP-32	128k x 8	90ns, 5V, I-temp.	2.59	2.09	1.88
845134	AT29C010A-12JC	PLCC-32	128k x 8	120ns, 5V, Com.-temp.	2.95	2.58	2.21
845169	AT29C010A-12JJ	PLCC-32	128k x 8	120ns, 5V, I-temp.	2.99	2.75	2.49
762937	AT29C010A-12TI	TSOP-32	128k x 8	120ns, 5V, I-temp.	2.69	2.50	2.35
763139	AT29LV010A-12JJ	PLCC-32	128k x 8	120ns, 3.3V, 8k boot block, I-temp.	2.65	2.06	1.89
845337	AT29LV010A-15JJ	PLCC-32	128k x 8	150ns, 3.3V, 8k boot block, I-temp.	3.19	2.46	2.27
763147	AT29LV010A-15TC	TSOP-32	128k x 8	150ns, 3.3V, 8k boot block, Com.-temp.	2.79	2.15	1.89
845249	AT29C020-70JC	PLCC-32	256k x 8	70ns, 5V, Com.-temp.	3.45	2.99	2.52
845361	AT29LV020-10JJ	PLCC-32	256k x 8	100ns, 3.3V, I-temp.	6.99	6.65	6.30
845370	AT29LV020-10TI	TSOP-32	256k x 8	100ns, 3.3V, I-temp.	3.19	2.69	2.52
763032	AT29C040A-15TC	TSOP-32	512k x 8	150ns, 5V, Com.-temp.	5.09	4.75	4.46
763059	AT29C040A-90TI	TSOP-32	512k x 8	90ns, 5V, I-temp.	4.85	3.95	3.57
763075	AT29C040A-90TU	TSOP-32	512k x 8	90ns, 5V, I-temp.	5.45	4.39	3.58
845417	AT29LV040A-15JJ	PLCC-32	512k x 8	150ns, 3.3V, 16k boot block, I-temp.	4.79	3.89	2.98
763163	AT29LV040A-15TI	TSOP-32	512k x 8	150ns, 3.3V, 16k boot block, I-temp.	4.49	3.99	3.58



## Flash Memory

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Part No.	Product No.	Pkg.	Description	1	5	50
788803	HD64F2134FA20	QFP-80	5V 16-bit single chip microcomputer	\$29.65	\$27.71	\$25.98
788811	HD64F2138FA20	QFP-80	5V 16-bit single chip microcomputer	24.59	22.96	21.52
788820	HD64F2145BE20	TOFP-100	5V 16-bit single chip microcomputer	25.95	24.24	22.73
788846	HD64F2148FA20	QFP-100	5V 16-bit single chip microcomputer	33.29	31.11	29.16
788854	HD64F2166VE33	TOFP-144	16-bit single chip microcomputer	49.15	45.92	43.05
788862	HD64F2168VE33	TOFP-144	16-bit single chip microcomputer	40.95	38.27	35.88
788889	HD64F2357F20V	QFP-128	16-bit single chip microcomputer	37.75	35.26	33.06
788897	HD64F2623FA20	QFP-100	16-bit single chip microcomputer	39.35	36.73	34.44
788900	HD64F2633TE25	TOFP-120	16-bit single chip microcomputer	39.35	36.73	34.44
788918	HD64F2638WF20J	QFP-128	16-bit single chip microcomputer	54.55	50.95	47.76
788926	HD64F3048F16	QFP-100	5V 16-bit single chip microcomputer	39.69	37.08	34.76
788934	HD64F3048VTF8	TOFP-100	3V 16-bit single chip microcomputer	60.55	56.57	53.03
788942	HD64F3052BF25	QFP-100	5V 16-bit single chip microcomputer	34.55	32.28	30.26
788951	HD64F3062BF25	QFP-100	5V 16-bit single chip microcomputer	18.29	17.08	16.01
788977	HD64F3067RF20	QFP-100	5V 16-bit single chip microcomputer	33.65	31.45	29.49
788985	HD64F3337YCP16	PLCC-84	16-bit single chip microcomputer	37.75	35.26	33.06
788993	HD64F3337YFLH16	QFP-80	16-bit single chip microcomputer	29.25	27.32	25.61
789013	HD64F3642AH	QFP-64	16-bit single chip microcomputer	★	Call	Call
789021	HD64F3644H	QFP-64	16-bit single chip microcomputer	★	Call	Call
789030	HD64F3687FP	LQFP-64	16-bit single chip microcomputer	★	Call	Call
789048	HD64F3694GFP1	LQFP-64	16-bit single chip microcomputer	★	Call	Call
789056	HD64F7044F28	QFP-112	32-bit RISC microcomputer	★	Call	Call
789072	HD64F7047FW40	QFP-100	32-bit RISC microcomputer	★	Call	Call
789099	HM62V8100LT1-SS1	TSOP-44	16-bit single chip microcomputer	★	Call	Call
789101	M30262F6GP#D5	LQFP-48	16-bit single CMOS chip microcomputer	★	Call	Call
789110	M30620FCFP#D5	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
789128	M30620FCFP#D5C	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
789136	M30620FCFP#D3C	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call
789144	M30624GFP#D5C	QFP-100	5V 16-bit single chip microcomputer	★	Call	Call

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## Flash Memory

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
698373	M29F040B45K1	PLCC-32	512k x 8	45ns, 5V, uniform block	\$4.95	\$4.65	\$4.38
698390	M29F400B45N1	TSOP-48	512k x 8	45ns, 5V, bottom boot	★	Call	Call
698402	M29W040B90K1	PLCC-32	512k x 8	90ns, 2.7-3.6V, uniform block	2.59	2.30	1.99

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## Flash Memory

Please Note: Manufacturer May Vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
74771	28F010-15	DIP-32	128k x 8	150ns, 5V	\$5.49	\$4.12	\$3.66
242587	29F010-120	DIP-32	128k x 8	120ns, 5V	3.95	3.65	3.15
242595	29F010-90	DIP-32	128k x 8	90ns, 5V	5.35	4.34	3.61
242608	29F010-70	DIP-32	128k x 8	70ns, 5V	6.09	5.18	3.88
74835	28F020-15	DIP-32	256k x 8	150ns, 5V	9.54	8.58	7.74
242616	29F020-12	DIP-32	256k x 8	120ns, 5V	4.55	4.44	4.33
242659	29F040-120	DIP-32	512k x 8	120ns, 5V	8.95	8.65	8.25
242667	29F040-90	DIP-32	512k x 8	90ns, 5V	9.05	8.60	8.15
375996	AT29LV040A-15JC	PLCC-32	512k x 8	150ns, 3V	4.39	4.20	4.10

## MICRON DDR SDRAM

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
699122	MT46V16M16TG-6T:F	TSOP-66	16M x 16	333MHz, 6ns	\$7.09	\$6.99	\$6.89
699181	MT46V32M16TG-6T IT:F	TSOP-66	32M x 16	333MHz, 6ns, ind. temp.	16.89	16.39	15.09

## MICRON SDRAM

For more Micron SDRAM visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Config.	Description	1	5
699392	MT48LC2M32B2TG-7:G TR	TSOP-86	2M x 32	143MHz, 5.5ns	★	Call
699456	MT48LC4M16A2TG-75 IT:G	TSOP-54	4M x 16	133MHz, 7.5ns, ind. temp.	★	Call
699464	MT48LC4M16A2TG-75 IT:G	TSOP-54	4M x 16	133MHz, 7.5ns, ind. temp.	★	Call
699333	MT48LC16M16A2TG-7E:D	TSOP-54	16M x 16	133MHz, 7.5ns	★	Call

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## NVRAM with RTC

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
698429	M48T02-150PC1	DIP-24	2k x 8	5V, 150ns, 16kbit timepr SRAM	\$15.19	\$13.52	\$11.20
698445	M48T12-150PC1	DIP-24	2k x 8	5V, 150ns, 16kbit timepr SRAM	15.95	14.65	11.09
698437	M48T08-150PC1	DIP-28	8k x 8	5V, 150ns, 64kbit timepr SRAM	16.25	14.85	13.17
698461	M48T35AV-10MH1E	SOIC-28	32k x 8	3.3V, 10ns, 256kbit timepr SRAM	14.35	13.94	13.54
698470	M48T35AV-10PC1	DIP-28	32k x 8	3.3V, 10ns, 256kbit timepr SRAM	17.15	15.85	11.99
698488	M48T35Y-70PC1	DIP-28	32k x 8	5V, 70ns, 256kbit timepr SRAM	14.85	14.05	12.81

## Legacy DRAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
41662	4164-150	DIP-16	64k x 1	150ns (MCM6665-15)	\$ .71	\$ .64	\$ .58
41574	41464-10	DIP-18	64k x 4	100ns (HY53C464S-10)	1.69	1.65	1.59
42315	514256P-80	DIP-20	256k x 4	80ns (UPD424256-80)	2.49	2.25	2.05
93374	514256P-70	DIP-20	256k x 4	70ns (TC514256P-70)	2.79	2.49	2.19
128688	HM514260	SOJ	256k x 16	70ns	3.39	3.05	2.75
42219	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10)	3.11	2.80	2.52

♣ Pull = Extra Savings

## Legacy Memory Modules

Part No.	Cross Ref.	Capacity	Description	Config.	Pins	1	10
41751	421000A9B-70	1MB	70ns SIMM	1M x 9	30	\$4.95	\$3.71
148443	JEDD07232	32MB	60ns SIMM EDO	8M x 32	72	43.95	32.96
148419	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	65.95	59.95
148451	JEDD07264	64MB	60ns SIMM EDO	16M x 32	72	30.95	28.95

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Part No.	Product No.	Pkg.	Config.	Description	1	10	100
1597988	7164L35P	DIP-28	8k x 8	35ns, LP, 64kbit, C-temp, 600 mill	\$5.05	\$4.53	\$3.60
1598032	7164S35P	DIP-28	8k x 8	35ns, 64kbit, C-temp, 600 mill	4.79	4.33	3.60
1598972	71V256SA12Y	SOJ-28	32k x 8	3.3V, 12ns, 256kbit, C-temp, 300 mill	1.48	1.38	1.29
1597208	71256SA15Y	SOJ-28	32k x 8	15ns, 256kbit, C-temp, 300 mill	1.35	1.20	1.04
1597275	71256SA20Y	SOJ-28	32k x 8	20ns, 256kbit, C-temp, 300 mill	1.35	1.20	1.04
1597304	71256SA20Y1	SOJ-28	32k x 8	20ns, 256kbit, I-temp, 300 mill	1.09	1.06	1.04
1597339	71256SA25Y	SOJ-28	32k x 8	25ns, 256kbit, C-temp, 300 mill	1.44	1.29	1.04
1597152	71256L35Y	SOJ-28	32k x 8	35ns, 256kbit, C-temp, LP, 300 mill	3.83	3.72	3.60
1598569	71V016SA10PH	TSOP-44	64k x 16	3.3V, 10ns, 1Mbit, C-temp, 400 mill	1.75	1.57	1.52
1598593	71V016SA12PH	TSOP-44	64k x 16	3.3V, 12ns, 1Mbit, C-temp, 400 mill	1.95	1.75	1.52
1598729	71V124SA12Y	SOJ-32	64k x 16	3.3V, 12ns, 1Mbit, C-temp, 400 mill	2.19	2.02	1.89
1596838	71016S15PH	TSOP-44	64k x 16	15ns, 1Mbit, C-temp, 400 mill	2.09	1.99	1.90
1596862	71016S15Y	SOJ-44	64k x 16	15ns, 1Mbit, C-temp, 400 mill	2.09	1.99	1.90
1596942	71024S15Y	SOJ-32	128k x 8	15ns, 1Mbit, C-temp, 300 mill	2.09	2.00	1.90
1596977	71024S15Y	SOJ-32	128k x 8	15ns, 1Mbit, C-temp, 400 mill	2.09	1.99	1.90
1597048	71024S20Y1	SOJ-32	128k x 8	20ns, 1Mbit, I-temp, 400 mill	2.75	2.53	2.37
1600585	71V416L10PH	TSOP-44	256k x 16	3.3V LP, 10ns, 4Mbit, C-temp	4.69	4.21	3.84
1600665	71V416S10PH	TSOP-44	256k x 16	3.3V, 10ns, 4Mbit, C-temp	4.89	4.42	3.84
1600690	71V416S12PH	TSOP-44	256k x 16	3.3V, 12ns, 4Mbit, C-temp	5.25	4.71	3.84
1600745	71V416S15PH	TSOP-44	256k x 16	3.3V, 15ns, 4Mbit, C-temp	5.49	5.12	4.80
1600825	71V416S15PH1	TSOP-44	256k x 16	3.3V, 15ns, 4Mbit, I-temp	5.69	5.28	4.95
1601086	71V424S10Y	SOJ-36	512k x 8	3.3V, 10ns, 4Mbit, C-temp, 400 mill	5.69	5.28	4.95

## Static RAM

Please Note: Manufacturer May Vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
38931	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	\$1.69	\$1.55	\$1.35
42198	5101-1	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.99	7.19	6.49
38957	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	2.29	1.99	1.79
43238	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns	3.95	3.65	3.35
38973	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.49	2.09	1.89
38981	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP	2.25	2.05	1.85
38746	2016-20	DIP-24	2k x 8	16-Kbit, 5V, 200ns	.80	.73	.66
698517	M48202-200PC1	DIP-24	2k x 8	16-Kbit, 5V, 200ns, zero power	8.95	8.15	7.39
114260	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV SRAM	14.35	12.56	7.58
698509	M48202-150PC1	DIP-24	2k x 8	16-Kbit, 5V, 150ns, zero power	8.95	8.15	7.39
698533	M48212-150PC1	DIP-24	2k x 8	16-Kbit, 5V, 150ns, zero power	9.55	8.71	7.90
25911	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns	8.70	7.43	5.57
42809	6116P-3	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.49	1.29	1.09
42753	6116LP-3	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP	1.95	1.75	1.59
42796	6116P-2	DIP-24	2k x 8	16-Kbit, 5V, 120ns	1.59	1.39	1.29
42788	6116P-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.95	1.75	1.63
42737	6116LP-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP	1.99	1.79	1.65
392294	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns	2.99	2.54	2.16
85121	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.55	3.17	2.86
42884	6264LP-10	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.65	2.49	2.25
42921	6264P-10	DIP-28	8k x 8	64-Kbit, 5V, 100ns	2.65	2.09	2.03
698525	M48208-100PC1	DIP-28	8k x 8	64-Kbit, 5V, 100ns, zero power	13.95	12.90	9.75
698541	M48218-100PC1	DIP-28	8k x 8	64-Kbit, 5V, 100ns, zero power	11.25	10.47	9.70
42892	6264LP-12	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.99	2.66	2.34
42930	6264P-12	DIP-28	8k x 8	64-Kbit, 5V, 120ns	2.65	2.39	2.15
114278	DS1225AB-150	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV SRAM	15.99	12.65	9.89
114307	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV SRAM	15.95	14.49	11.65
242333	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns Asynch	3.29	2.80	2.10
177113	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV SRAM	15.75	14.60	11.75
114323	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV SRAM	20.25	17.10	10.25
41970	43256-10L	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	5.49	4.99	4.49
41988	43256-12L	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	4.99	4.49	4.09
242376	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch	1.99	1.69	1.27
75037	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns	3.39	2.99	2.69
82472	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	4.95	4.50	4.05
391793	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	2.85	2.42	1.82
391822	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.85	2.30	1.80

Pull = Extra Savings

This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Static RAM (Continued)

Please Note: Manufacturer May Vary

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
391890	CY62256L-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP	\$2.85	\$2.42	\$1.90
42876	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP	3.29	2.66	2.13
42833	62256LP-10	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	3.75	3.20	2.40
42850	62256LP-12	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	3.89	3.49	3.19
693935	M5M5258P-35	DIP-24	64k x 4	256-Kbit, 5V, 35ns	1.95	1.75	1.59
391831	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.45	2.05	1.85
391996	CY62128BLL-70ZC	TSSOP-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.85	2.30	2.10
279873	628128S-70	SOP-32	128k x 8	1-Mbit, 5V, 70ns	2.49	2.19	1.89
131810	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP	8.99	7.39	6.69
103982	628128LP-85	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	10.65	9.03	6.76
392358	CY7C041CV33-12ZC	TSSOP-44	256k x 16	1-Mbit, 3.3V, 12ns, Asynch	4.55	4.16	3.92
157358	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	19.19	17.15	16.35
280049	628512S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Asynch	6.29	5.69	5.12

Pull = Extra Savings

## PALs and GALs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
28020	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	\$2.25	\$1.75	\$1.31
652615	16V8-7	DIP-20	7ns 64 x 32 AND array	3.29	2.82	2.59
88399	16V8-10	DIP-20	10ns 64 x 32 AND array	1.99	1.79	1.59
37452	16V8-15	DIP-20	15ns 64 x 32 AND array	1.59	1.41	1.27
876475	GAL16V8D-15QJ	PLCC-20	15ns 64 x 32 AND array	2.45	1.96	1.68
37461	16V8-25	DIP-20	25ns 64 x 32 AND array	1.35	1.16	1.05
105953	18CV8P-25	DIP-20	25ns 74 x 36 AND array	2.70	2.39	2.15
88292	20V8-10	DIP-24	10ns 64 x 40 AND array	2.22	1.89	1.42
38658	20V8-15	DIP-24	15ns 64 x 40 AND array	1.86	1.27	1.15
105996	22CV10AP-25	DIP-24	25ns 132 x 44 AND array	2.59	2.35	2.05
123801	22V10-10	DIP-24	10ns 132 x 44 AND array	5.49	4.99	4.49
39159	22V10-15	DIP-24	15ns 132 x 44 AND array	4.49	3.95	3.55
876951	GAL22V10D-15LP	DIP-24	15ns 132 x 44 AND array	7.25	6.50	5.92
39167	22V10-25	DIP-24	25ns 132 x 44 AND array	4.25	3.73	3.31

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

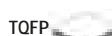
\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## Atmel EEPDs

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Part No.	Product No.	Pkg.	Description	1	10	100
846559	ATF16V8BQL-15JL	PLCC-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr	★	Call	Call
846575	ATF16V8BQL-15JUR	PLCC-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr	★	Call	Call
846639	ATF16V8BQL-15PL	DIP-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr	★	Call	Call
846663	ATF16V8BQL-15PU	DIP-20	15ns, 10 inputs, 8 I/O, I-temp, qtr pwr	2.25	1.77	1.33
846778	ATF22V10C-15PU	DIP-24	15ns, 12 inputs, 10 I/O, I-temp	★	Call	Call
764393	ATF22V10C-15SC	SOIC-24	15ns, 12 inputs, 10 I/O, C-temp	★	Call	Call
764414	ATF22V10CQ-15JC	PLCC-28	15ns, 12 inputs, 10 I/O, C-temp, qtr pwr	★	Call	Call
764449	ATF22V10CQ-15PC	DIP-24	15ns, 12 inputs, 10 I/O, C-temp, qtr pwr	★	Call	Call
764465	ATF22V10CQZ-20JC	PLCC-28	20ns, 12 inputs, 10 I/O, C-temp, qtr pwr	★	Call	Call
846831	ATF22V10CQZ-20PC	DIP-28	20ns, 12 inputs, 10 I/O, C-temp, qtr pwr	★	Call	Call
764473	ATF22V10CQZ-20PL	DIP-24	20ns, 12 inputs, 10 I/O, I-temp, qtr pwr	★	Call	Call
764490	ATF22V10CQZ-15PC	DIP-24	15ns, 12 inputs, 10 I/O, C-temp, qtr pwr	★	Call	Call
764107	ATF16LV8C-10JC	PLCC-20	10ns, 10 inputs, 8 I/O, C-temp	★	Call	Call
764140	ATF16V8B-10JC	PLCC-20	10ns, 10 inputs, 8 I/O, C-temp	★	Call	Call
764158	ATF16V8B-15JUR	PLCC-20	15ns, 10 inputs, 8 I/O, I-temp	★	Call	Call
846495	ATF16V8B-15PU	DIP-24	15ns, 10 inputs, 8 I/O, C-temp	1.59	1.47	1.35
764174	ATF16V8B-15SC	SOIC-20	15ns, 10 inputs, 8 I/O, C-temp	★	Call	Call

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Table with 12 columns: Part No., Cross Ref., Pkg., Speed, Icc, Inputs, I/O, Vcc, Temp., 1, 10, 100. Rows include 105953, 105996, 315361.

† C = Commercial Temp. range: 0 to +70°C

CPLDs

Table with 12 columns: Part No., Product No., Pkg., Description, Temp., Price. Rows include 1723112, 1723139, 1723606, 1723681, 1723690, 1723702, 1723711, 1723729, 1723737, 1723788, 1723825, 1723180, 1723913, 1723930, 1723964, 1724027, 1724078, 1724086, 1724094, 1724107, 1724158, 1724211, 1724300, 1724326, 1724334, 1724352, 1724351, 1724414, 1724529, 1724537, 1724609, 1724650, 1724684, 1724713, 1724756, 1724895, 1724941, 1722945, 1722953, 1722961, 1723059, 1723331, 1725038, 1725097, 1725231, 1725249, 1723462, 1723551, 1723569, 1725337, 1725433, 1722726, 1722814, 1722831, 1722890.

† C = C-temp. I = I-temp.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

FLEX FPGAs

Table with 5 columns: Part No., Product No., Pkg., Description, Price. Rows include 1721432, 1722558, 1720587, 1722312.

74ABT Series

Table with 6 columns: Part No., Product No., Pkg., Description, 1, 10, 100. Rows include 830223, 830240, 830266, 830282, 830303, 830320, 830338, 830346, 830362, 830389, 830400, 911648, 830442, 911710, 830469, 830514, 830531, 830557, 830573, 830590, 830611, 830637, 830653, 830670, 830696, 830717, 911787, 830741.

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74AC/ACT Series

Table with 6 columns: Part No., Product No., Pkg., Description, 1, 5, 50. Rows include 830881, 830768, 912077, 830901, 830784, 912157, 896134, 911816, 830928, 830805, 831074, 831120, 830821, 912350, 831015, 830848, 830864, 831040, 830952, 830987, 831103, 912544, 831154.

# 74AC/ACT, 74AHC/AHCT, 49FCT, 74F, 74FCT & 74HC Series

Color Code Legend			
New	Sale	Lower\$	QtySave

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## ON Semiconductor® 74AC/74ACT Series

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
795131	MC74ACT05D	SOIC-14	Hex inverter w/ open drain outputs	* .175	.175	.157
966606	MC74AC245DW	SOIC-20	Octal bi-directional trans w/ 3-st inputs/outputs	* .409	.368	
795641	MC74ACT640NG	DIP-20	Octal 3-st inverting transceiver	2.05	1.73	1.56

## TEXAS INSTRUMENTS 74AHC Series

For more TI 74AHC visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
831197	SN74AHC02PW	TSSOP-14	Quad 2-input positive NOR gates	* .172	.16	
912691	SN74AHC04PW	TSSOP-14	Hex inverters	* .135	.126	
831226	SN74AHC08PW	TSSOP-14	Quad 2-input positive AND gates	* .135	.126	
831373	SN74AHC14PW	TSSOP-14	Hex schmitt-trigger inverters	* .135	.126	
831533	SN74AHC1G08V	SOT-23	Single schmitt-trigger inverter gate	★ Call	Call	Call
831592	SN74AHC32PW	TSSOP-14	Quad 2-input positive OR gates	* .135	.126	
831568	SN74AHC320BV	SOT-23	Single 2-input positive OR gate	★ Call	Call	Call
831664	SN74AHC74D	SOIC-14	Dual pos. edge-trig. D-type F-F w/ clr. & preset	* .135	.126	
831251	SN74AHC123AD	SOIC-16	Dual retriggerable monostable multivibrators	* .27	.252	
912739	SN74AHC125D	SOIC-14	Quad buffer gates w/ 3-st. outputs	* .147	.137	
831509	SN74AHC1250BV	SOT-23	Single bus buffer gate w/ 3-st. outputs	★ Call	Call	Call
831285	SN74AHC126D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	* .216	.202	
831314	SN74AHC132D	SOIC-14	Quad positive NAND gates w/ schmitt-trig. inputs	* .216	.202	
831349	SN74AHC138PW	TSSOP-16	3-to-8 line decoders/demultiplexers	* .27	.252	
913281	SN74AHC573DW	SOIC-20	Octal transparent D-type latches w/ 3-st. outputs	* .209	.195	
831621	SN74AHC595D	SOIC-16	8-bit shift registers w/ 3-st. output registers	* .362	.341	
831648	SN74AHC595PW	TSSOP-16	8-bit shift registers w/ 3-st. output registers	.65	.58	.546
831402	SN74AHC1624DL	SSOP-48	16-bit buffers/drivers w/ 3-st. outputs	1.19	1.11	1.04

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## TEXAS INSTRUMENTS 74AHCT Series

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
831841	SN74AHCT1G000BV	SOT-23	Single 2-input positive NAND gate	★ Call	Call	Call
913328	SN74AHCT02D	SOIC-14	Quad 2-input positive NOR gates	* .135	.126	
832173	SN74AHC04PW	TSSOP-14	Hex inverters	* .172	.16	
831904	SN74AHCT1G04DCKT	SC70	Single inverter gate	★ Call	Call	Call
913820	SN74AHCT32D	SOIC-14	Quad 2-input positive OR gates	* .135	.126	
831699	SN74AHCT125D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	* .184	.172	
831728	SN74AHCT125PW	TSSOP-14	Quad bus buffer gates w/ 3-st. outputs	* .209	.195	
831752	SN74AHCT126D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	* .184	.172	
831787	SN74AHCT132D	SOIC-14	Quad pos. NAND gates w/ schmitt-trigger inputs	* .258	.241	
831963	SN74AHCT540PW	TSSOP-20	Octal buffers/drivers w/ 3-st. outputs	* .326	.307	
831998	SN74AHCT541DW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	* .27	.252	
832026	SN74AHCT541PW	TSSOP-20	Octal buffers/drivers w/ 3-st. outputs	* .295	.275	
832051	SN74AHCT573DW	SOIC-20	Octal trans. D-type latches w/ 3-st. outputs	* .209	.195	
832085	SN74AHCT594D	SOIC-16	8-bit shift registers w/ output registers	.65	.58	.546
832114	SN74AHCT594PW	TSSOP-16	8-bit shift registers w/ output registers	.65	.58	.546
913897	SN74AHCT595D	SOIC-16	8-bit shift registers w/ 3-st. output registers	* .241	.227	
832149	SN74AHCT595PW	TSSOP-16	8-bit shift registers w/ 3-st. output registers	* .241	.227	
913571	SN74AHCT1624DL	SSOP-48	16-bit buffers/drivers w/ 3-st. outputs	1.55	1.45	1.36
913601	SN74AHCT16245DL	SSOP-48	16-bit bus transceivers w/ 3-st. outputs	1.55	1.45	1.36
831808	SN74AHCT16373DL	SSOP-48	16-bit transparent D-type latches w/ 3-st. outputs	1.55	1.45	1.36

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## IDT 49FCT Series

For more IDT 49FCT visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	10	100
1699950	49FCT805ASO	SOIC-20	Fast CMOS buffer/clock driver	\$4.45	\$4.16	\$3.88
1699677	49FCT3805APY	SOIC-20	3.3V CMOS buffer/clock driver	.79	.73	.69
1699714	49FCT3805AQ	QSOIC-20	3.3V CMOS buffer/clock driver	.61	.57	.56
1699757	49FCT3805AQI	QSOIC-20	3.3V CMOS buffer/clock driver I-temp	2.95	2.66	2.36
1699790	49FCT3805DQI	QSOIC-20	3.3V CMOS dual 1-to-5 clock dvr, I-temp	1.92	1.80	1.73

## TEXAS INSTRUMENTS 74F Series

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
834902	SN74F00N	DIP-14	Quad 2-input positive NAND gates	* .221	.206	
834911	SN74F02N	DIP-14	Quad 2-input positive NOR gates	★ Call	Call	Call
834929	SN74F08D	SOIC-14	Quad 2-input positive AND gates	* .196	.183	
834937	SN74F08N	DIP-14	Quad 2-input positive AND gates	★ Call	Call	Call
834953	SN74F10D	SOIC-14	Triple 3-input positive NAND gates	★ Call	Call	Call
834961	SN74F10N	DIP-14	Triple 3-input positive NAND gates	* .221	.206	
834988	SN74F11D	SOIC-14	Triple 3-input positive AND gates	* .221	.206	
835067	SN74F20N	DIP-14	Dual 4-input positive NAND gates	★ Call	Call	Call
835075	SN74F21D	DIP-14	Dual 4-input positive AND gates	* .295	.275	
835112	SN74F27D	SOIC-14	Triple 3-input positive NOR gates	* .221	.206	
835139	SN74F30D	SOIC-14	8-input positive NAND gates	* .196	.183	
834945	SN74F109D	SOIC-16	Dual J-K pos. edge-trig. F-F w/ clear & preset	* .221	.206	
834970	SN74F112D	SOIC-16	Dual neg. edge-trig. J-K F-F w/ clear & preset	* .368	.344	
834996	SN74F126D	SOIC-14	Quad bus buffer gate w/ 3-st. outputs	* .221	.206	
835016	SN74F157AN	DIP-16	Quad 2-to-1 line data selectors/multiplexers	* .246	.229	
835024	SN74F163AD	SOIC-16	Synchronous 4-bit binary counter	* .246	.229	
835032	SN74F174AD	SOIC-16	Hex D-type flip-flop w/ clear	* .48	.45	
835041	SN74F175D	SOIC-16	Quad D-type flip-flop w/ clear	* .246	.229	
835059	SN74F175N	DIP-16	Quad D-type flip-flop w/ clear	* .246	.229	
835083	SN74F240DW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	* .332	.31	
835091	SN74F240N	DIP-20	Octal buffers/drivers w/ 3-st. outputs	* .405	.378	
835104	SN74F257D	DIP-16	Quad 2-to-1 line data selectors/multi. w/ 3-st	* .246	.229	
835121	SN74F280BD	DIP-14	9-bit parity generators/checkers	* .381	.356	
835147	SN74F541DW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	★ Call	Call	Call
835155	SN74F543NT	DIP-24	Octal registered trans.w/ 3-st. output	.95	.84	.79
835163	SN74F573DW	DIP-20	Octal transparent D-type latches w/ 3-st	★ Call	Call	Call

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## IDT 74FCT Series

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Part No.	Product No.	Pkg.	Description	* Minimum order 10 pieces		
				1	10	100
1608368	74FCT244ATQ	QSOIC-20	Octal buffer/line driver	\$ .71	\$ .66	\$ .60
1608392	74FCT244ATSO	SOIC-20	Octal buffer/line driver	.70	.52	.39
1608536	74FCT245ATQ	QSOIC-20	Octal bi-directional transceiver	* .34	.31	
1608561	74FCT245ATSO	SOIC-20	Octal bi-directional transceiver	* .39	.35	
1609361	74FCT3807APY	SSOIC-20	3.3V CMOS 1-to-10 clock driver	.61	.58	.56
1609416	74FCT3807AQ	QSOIC-20	3.3V CMOS 1-to-10 clock driver	.61	.58	.56
1606602	74FCT16244ATPA	TSSOP-48	16-bit buffer/line driver	1.33	1.11	.89
1606637	74FCT16244ATPV	SSOP-48	16-bit buffer/line driver	.68	.63	.61
1606661	74FCT16245ATPA	TSSOP-48	16-bit bidirectional transceiver	1.33	1.11	.89
1606696	74FCT16245ATPV	SSOP-48	16-bit bidirectional transceiver	.68	.63	.61
1609344	74FCT38075DCGI	SOIC-8	3.3V CMOS 1-to-5 clock driver, I-temp.	3.95	3.65	3.42
1606215	74FCT162244ATPV	SSOP-48	16-bit buffer/line driver	1.18	.99	.79
1606291	74FCT162245ATPV	SSOP-48	16-bit bi-directional transceiver	1.02	.91	.70
1606506	74FCT162374ATPV	SSOP-48	16-bit register, 3-st.	1.58	1.38	1.18
1607517	74FCT164245TPA	TSSOP-48	16-bit bi-directional 3.3-5V translator	2.39	2.28	2.17
1607550	74FCT164245TPV	SSOP-48	16-bit bi-directional 3.3-5V translator	2.39	2.28	2.17

## NXP 74HC Series

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
906291	74HC00D-T	SOIC-14	Quad 2-input NAND gate, I-temp	* .117	.109	
906531	74HC04D-T	SOIC-14	Hex inverter	* .416	.328	
906611	74HC08D-T	SOIC-14	Quad 2-input AND gate, I-temp	* .406	.222	
908799	74HC32D-T	SOIC-14	Quad 2-input OR gate, I-temp	* .117	.109	
845759	74HC160N	DIP-16	Presettable sync. BCD contr. asyn. reset	* .367	.344	
909628	74HC4040N	DIP-16	12-stage binary ripple counter, I-temp	.53	.392	.294
909871	74HC4052D	SOIC-16	Dual channel analog mux/demux	.86	.67	.63



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74HC Series

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\* Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
872141	MM74HC123AN	DIP-16	Dual retriggerable monostable multivib	\$ .51	\$ .41	\$ .31
872571	MM74HC373N	DIP-20	3-st octal D-type latch	*	.34	.309

ON Semiconductor 74HC Series

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\* Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
875000	MC74HC541AN	DIP-20	Octal 3-st non-inv buffer/line driv/line receiv	\$ .54	\$ .44	\$ .41
875237	MC74HC595AN	DIP-16	8-bit serial input/parall output shift reg w/ 3-st	.51	.35	.33

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\* Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	50
835201	SN74HC00D	SOIC-14	Quad 2-input positive NAND gates	*	\$ .135	\$ .126
1318977	CD74HC00EE4	DIP-14	Hi spd CMOS logic quad 2-input NAND gate	*	.321	.289
835219	SN74HC00N	DIP-14	Quad 2-input positive NAND gates	*	.16	.149
914591	SN74HC03D	SOIC-14	Quad 2-input pos. NAND w/ open-drain outputs	*	.135	.126
914611	SN74HC03N	DIP-14	Quad 2-input pos. NAND w/ open-drain outputs	*	.157	.148
835227	SN74HC04DE4	SOIC-14	Hex inverters	*	Call	Call
835235	SN74HC04N	DIP-14	Hex inverters	*	.16	.149
835243	SN74HC04PWG4	TSSOP-14	Hex inverters	*	.135	.126
914671	SN74HC05D	SOIC-14	Hex inverters w/ open-drain outputs	*	.135	.126
914697	SN74HC05N	DIP-14	Hex inverters w/ open-drain outputs	*	.169	.159
250982	SN74HC07N	DIP-14	Hex Inverter	.26	.228	.21
896741	CD74HC08E	DIP-14	CMOS logic quad 2-input AND gate, I-temp	.52	.412	.309
835278	SN74HC10N	DIP-14	Triple 3-input positive NAND gates	*	.157	.148
914751	SN74HC11D	SOIC-14	Triple 3-input positive AND gates	*	.147	.137
835340	SN74HC14N	DIP-14	Hex schmitt-trigger inverters	*	.16	.149
915403	SN74HC20D	SOIC-14	Dual 4-input positive NAND gates	*	.135	.126
915438	SN74HC20N	DIP-14	Dual 4-input positive NAND gates	*	.157	.148
835454	SN74HC21D	SOIC-14	Dual 4-input positive AND gates	*	.135	.126
915462	SN74HC21N	DIP-14	Dual 4-input positive AND gates	*	.157	.148
814645	SN74HC27D	SOIC-14	Triple 3-input positive NOR gates	*	.135	.126
915841	SN74HC27DR	SOIC-14	Triple 3-input positive OR gate	*	.274	.206
915876	SN74HC27N	DIP-14	Triple 3-input positive NOR gates	*	.157	.148
814670	SN74HC32D	SOIC-14	Quad 2-input positive OR gates	*	.135	.126
916220	SN74HC42D	SOIC-16	4-to-10 line decoders	*	.41	.387
814856	SN74HC42N	DIP-16	4-to-10 line decoders	.65	.58	.546
898210	CD74HC74E	DIP-14	Dual D flip-flop w/ set/reset pos. edge-trig, I-temp	.52	.412	.309
815322	SN74HC74N	DIP-14	Dual D-type pos. edge-trig. F-F w/ clear & preset	*	.157	.148
815357	SN74HC86N	DIP-14	Quad 2-input exclusive OR gates	*	.172	.16
835251	SN74HC109D	SOIC-16	Dual J-K pos. edge-trig. F-F w/ clear & preset	*	.184	.172
835260	SN74HC109N	DIP-16	Dual J-K pos. edge-trig. F-F w/ clear & preset	*	.209	.195
835286	SN74HC112D	SOIC-16	Dual J-K neg. edge-trig. F-F w/ clear & preset	*	.169	.159
835294	SN74HC112N	DIP-16	Dual J-K neg. edge-trig. F-F w/ clear & preset	*	.265	.25
914814	SN74HC126D	SOIC-14	Quad bus buffer gates w/ 3-st. outputs	*	.157	.148
914849	SN74HC126N	DIP-14	Quad bus buffer gates w/ 3-st. outputs	*	.196	.183
820711	CD74HC132E	DIP-14	CMOS logic quad 2-input NAND schmitt trig, I-temp	.71	.53	.40
835307	SN74HC132N	DIP-14	Quad pos. NAND gates w/ schmitt-trigger inputs	*	.196	.183
835315	SN74HC138N	DIP-16	3-to-8 line decoders/demultiplexers	*	.196	.183
835323	SN74HC139PW	TSSOP-16	Dual 2-to-4 line decoders/demultiplexers	*	.172	.16
914953	SN74HC148D	SOIC-16	8-to-3 line priority encoders	*	.193	.182
835331	SN74HC148DE4	SOIC-16	8-to-3 line priority encoders	*	.196	.183
914988	SN74HC148N	DIP-16	8-to-3 line priority encoders	*	.217	.205
915032	SN74HC151D	SOIC-16	8-to-1 line data selectors/multiplexers	*	.205	.193
835358	SN74HC151N	DIP-16	8-to-1 line data selectors/multiplexers	*	.233	.218
915067	SN74HC153D	SOIC-16	Dual 4-to-1 line data selector/multiplexers	*	.193	.182
835366	SN74HC153DE4	SOIC-16	Dual 4-to-1 line data selector/multiplexers	*	Call	Call
835374	SN74HC153N	DIP-16	Dual 4-to-1 line data selector/multiplexers	*	.216	.202
835382	SN74HC157N	DIP-16	Quad 2-to-1 line data selector/multiplexers	*	.205	.193
835391	SN74HC158N	DIP-16	Quad 2-to-1 line data selector/multiplexers	*	.324	.303
835403	SN74HC161N	DIP-16	4-bit synchronous binary counters	*	.212	.20

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TEXAS INSTRUMENTS 74HC Series (Cont.)

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\* Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	50
915121	SN74HC163D	SOIC-16	4-bit synchronous binary counters	*	\$ .221	\$ .206
835411	SN74HC163DE4	SOIC-16	4-bit synchronous binary counters	*	.221	.206
915219	SN74HC166D	SOIC-16	8-bit parallel-load shift registers	*	.196	.183
915243	SN74HC166N	DIP-16	8-bit parallel-load shift registers	*	.216	.202
835420	SN74HC166PW	TSSOP-16	8-bit parallel-load shift registers	*	.196	.183
915278	SN74HC175D	SOIC-16	Quad D-type F-F w/ clear	*	.193	.182
915315	SN74HC175N	DIP-16	Quad D-type F-F w/ clear	*	.216	.202
835438	SN74HC175PW	TSSOP-16	Quad D-type F-F w/ clear	*	.196	.183
915340	SN74HC191D	SOIC-16	4-bit synchronous up/down binary counters	*	.221	.206
915374	SN74HC191N	DIP-16	4-bit synchronous up/down binary counters	*	.241	.227
835446	SN74HC193N	DIP-16	4-bit synch. up/down counters (dual clock w/ clear)	*	.246	.229
915497	SN74HC241DW	SOIC-20	Octal buffers & line drivers w/ 3-st. outputs	*	.265	.25
915526	SN74HC241N	DIP-20	Octal buffers & line drivers w/ 3-st. outputs	*	.314	.296
835462	SN74HC244N	DIP-20	Octal buffers & line drivers w/ 3-st. outputs	*	.241	.227
915551	SN74HC244PWR	TSSOP-20	Octal buffer & line driver w/ 3-st outputs	*	.205	.193
835471	SN74HC245N	DIP-20	Octal bus transceivers w/ 3-st. outputs	*	.265	.25
915649	SN74HC251D	SOIC-16	Data selector/multiplexer w/ 3-st. outputs	*	.205	.193
915665	SN74HC251N	DIP-16	Data selector/multiplexer w/ 3-st. outputs	*	.229	.216
915690	SN74HC257D	SOIC-16	Quad 2-to-1 line data selectors/multi. w/ 3-st. outputs	*	.205	.193
915729	SN74HC257N	DIP-16	Quad 2-to-1 line data selectors/multi. w/ 3-st. outputs	*	.241	.227
915753	SN74HC259D	SOIC-16	8-bit addressable latches	*	.205	.193
915817	SN74HC259N	DIP-16	8-bit addressable latches	*	.265	.25
835489	SN74HC273N	DIP-20	Octal D-type flip-flops w/ clear	*	.241	.227
915930	SN74HC365D	SOIC-16	Hex buffers & line drivers w/ 3-st	*	.29	.273
821714	CD74HC366E	DIP-16	CMOS logic hex buffer/line drv. 3-st. non-inv, I-temp	.63	.55	.47
814709	SN74HC367D	SOIC-16	Hex buffers & line drivers w/ 3-st	*	.295	.275
915964	SN74HC367N	DIP-16	Hex buffers & line drivers w/ 3-st	*	.29	.273
814725	SN74HC368D	SOIC-16	Hex invert buffers/line drivers w/ 3-st	*	.295	.275
915999	SN74HC368N	DIP-16	Hex invert buffers/line drivers w/ 3-st	*	.205	.193
251475	SN74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. out H.O. (TI)	.49	.42	.38
916115	SN74HC377DW	SOIC-20	Octal D-type flip-flops w/ clock enable	*	.216	.202
916140	SN74HC377N	DIP-20	Octal D-type flip-flops w/ clock enable	*	.241	.227
897743	CD74HC393E	DIP-14	CMOS logic dual 4-stage binary counter, I-temp	.94	.71	.54
814776	SN74HC393D	DIP-14	Dual 4-bit binary counters	*	.209	.195
814805	SN74HC393PW	TSSOP-14	Dual 4-bit binary counters	*	.164	.153
814881	SN74HC540N	DIP-20	Octal buffers/line drivers w/ 3-st	*	.314	.296
814901	SN74HC541N	DIP-20	Octal buffers/line drivers w/ 3-st	*	.241	.227
814936	SN74HC563DW	SOIC-20	Octal transparent D-type latches w/ 3-st	*	.459	.432
814961	SN74HC573ADW	SOIC-20	Octal transparent D-type latches w/ 3-st	*	.246	.229
814995	SN74HC573AN	DIP-20	Octal transparent D-type latches w/ 3-st	*	.278	.262
815023	SN74HC590ADW	SOIC-16	8-bit binary counters w/ 3-st. outputs	*	.326	.307
815058	SN74HC594D	SOIC-16	8-bit shift registers w/ output registers	.55	.483	.455
815074	SN74HC594DW	SOIC-16	8-bit shift registers w/ output registers	.55	.483	.455
815103	SN74HC595D	SOIC-16	8-bit shift registers w/ 3-st. output registers	*	.314	.296
815138	SN74HC595N	DIP-16	8-bit shift registers w/ 3-st. output registers	*	.338	.318
916414	SN74HC640N	DIP-20	Octal bus transceivers w/ 3-st. outputs	*	.459	.432
815162	SN74HC645DW	SOIC-20	Octal bus transceivers w/ 3-st. outputs	1.05	.96	.91
815197	SN74HC646DW	SOIC-24	Octal bus transceivers w/ 3-st. outputs	1.05	.96	.91
815226	SN74HC652DW	SOIC-24	Octal bus transceivers/registers w/ 3-st. outputs	1.29	1.20	1.13
815234	SN74HC652NT	DIP-24	Octal bus transceivers/registers w/ 3-st. outputs	1.29	1.20	1.13
815269	SN74HC682DW	SOIC-20	8-bit magnitude comparators	3.85	3.55	3.34
815293	SN74HC682N	DIP-20	8-bit magnitude comparators	3.85	3.55	3.34
916203	SN74HC4020N	DIP-16	14-bit asynchronous binary counters	*	.326	.307
814821	SN74HC4040N	DIP-16	12-bit asynchronous binary counters	*	.241	.227
822063	CD74HC4060E	DIP-16	CMOS logic 14-stage binary counter w/ oscillator	.52	.388	.291
822151	CD74HC4094E	DIP-16	CMOS logic 8-stage shift & store bus reg. 3-st., I-temp	*	.329	.26
822303	CD74HC4511E	DIP-16	BCD-to-7 segment latch/decoder/driver	.78	.59	.44
916449	SN74HC7001D	SOIC-14	Quad positive AND gates w/ schmitt-trigger inputs	1.25	1.13	1.07

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## 74HC Series

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Part No.	Cross Ref.	Pkg.	Description	1	10	100
45161	74HC00N	DIP-14	Quad 2-input NAND gate	.27	.228	.168
45188	74HC02N	DIP-14	Quad 2-input NOR gate	.25	.208	.185
45209	74HC04N	DIP-14	Hex Inverter	.29	.203	.159
45225	74HC08N	DIP-14	Quad 2-input AND gate	.39	.174	.139
45233	74HC10N	DIP-14	Triple 3-input NAND gate	.*	.284	.215
45364	74HC14N	DIP-14	Hex Schmitt trigger inverter	.27	.228	.204
45794	74HC32N	DIP-14	Quad 2-input OR gate	.29	.252	.18
46130	74HC74N	DIP-14	Dual D-type pos. edge trig. F-F w/ clear & preset	.33	.30	.264
46181	74HC86N	DIP-14	Quad 2-input Exclusive OR gate	.26	.19	.17
45305	74HC125N	DIP-14	Quad bus buffer w/ 3-state outputs	.34	.288	.216
45330	74HC138N	DIP-16	3-to-8 decoder/demultiplexer	.33	.275	.255
45401	74HC154N	DIP-24	4-to-16 line decoder	.79	.71	.54
45487	74HC164N	DIP-14	8-bit parallel out serial shift register	.28	.25	.188
45495	74HC165N	DIP-16	8-bit parallel load shift register	.32	.28	.25
45541	74HC192N	DIP-16	Presettable synch. 4-bit up/down counter	1.59	1.45	1.29
45655	74HC244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.45	.39	.35
45671	74HC245N	DIP-20	Octal bus trans. w/ 3-state output	.45	.38	.29
45831	74HC373N	DIP-20	Octal D-type transparent latches w/ 3-st. out H.O.	.45	.39	.35
45858	74HC374N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. output	.35	.298	.26
46050	74HC541N	DIP-20	Octal buffer/line driver w/ 3-st. output NOR gate enabled	.37	.31	.24
46076	74HC573N	DIP-20	Octal transparent D-type latches w/ 3-st. output	.38	.312	.264
46084	74HC574N	DIP-20	Octal edge trig. D-type F-F w/ 3-st. out. flow thru	.40	.324	.24
46105	74HC595N	DIP-16	8-bit shift reg. w/ 3-st. output register	.62	.44	.39
251643	SN74HC595N	DIP-16	8-bit shift registers w/ 3-st. output registers	.65	.48	.36
46113	74HC688N	DIP-20	8-bit identity comparators	.44	.37	.278
45891	74HC4017N	DIP-16	Decade ctr/div w/ decoded output	.50	.46	.428
88102	74HC4051N	DIP-16	8-channel analog multiplexer	.36	.282	.229
272129	74HC4053N	DIP-16	Triple 2-channel analog multiplexer	.45	.374	.258

## 74HCT Series

NEW

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Part No.	Product No.	Pkg.	Description	1	10	100
786541	MM74HCT08N	DIP-14	Quad 2-input AND gate	.*	\$.245	\$.221

## NXP 74HCT Series

NEW

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Part No.	Product No.	Pkg.	Description	1	10	100
912296	74HCT14D-T	SOIC-14	Hex inverting Schmitt trigger, 1-temp	.*	\$.41	\$.325

## Texas Instruments 74HCT Series

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Part No.	Product No.	Pkg.	Description	1	5	100
815373	SN74HCT00D	SOIC-14	Quad 2-input positive NAND gates	.*	\$.135	\$.126
815402	SN74HCT00N	DIP-14	Quad 2-input positive NAND gates	.*	.169	.159
815437	SN74HCT04N	DIP-14	Hex inverters	.*	.157	.148
815461	SN74HCT244DW	SOIC-20	Octal buffers & line drivers w/ 3-st. outputs	.*	.209	.195
815496	SN74HCT245N	DIP-20	Octal bus transceivers w/ 3-st. outputs	.*	.265	.25
815525	SN74HCT257N	DIP-16	Quad 2-to-1 line data selector/multi. w/ 3-st. outputs	.*	.241	.227
815550	SN74HCT373N	DIP-20	Octal transparent D-type latches w/ 3-st. outputs	.*	.29	.273
815576	SN74HCT374N	DIP-20	Octal edge-trig. D-type F-F w/ 3-st. outputs	.*	.29	.273
815592	SN74HCT574N	DIP-20	Octal edge-trig. D-type F-F w/ 3-st. outputs	.*	.314	.296
1332867	CD74HCT640EE4	DIP-20	CMOS logic octal 3-st bus transceiver, inv.	.86	.76	.65
815621	SN74HCT646NT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	1.19	1.11	1.04
916801	SN74HCT652DW	SOIC-24	Octal bus trans./reg. w/ 3-st. outputs	1.19	1.08	1.02
916828	SN74HCT652NT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	1.29	1.20	1.13

## 74HCT Series

\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44898	74HCT04N	DIP-14	Quad 2-input NOR gate	.*	\$.158	\$.118
44935	74HCT14N	DIP-14	Hex Schmitt trigger inverter	.28	.24	.18
45137	74HCT74N	DIP-14	Dual D-type pos. edge trig F-F w/ clear & preset	.26	.224	.168
44927	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer	.33	.282	.212
63773	74HCT139N	DIP-16	2-to-4 decoder/demultiplexer	.36	.32	.249
45022	74HCT244N	DIP-20	Octal buffer/line driver w/ 3-st. output	.31	.28	.25
45031	74HCT245N	DIP-20	Octal bus trans. w/ 3-state output	.34	.29	.22
45065	74HCT373N	DIP-20	Octal transparent D-type latch w/ 3-st. output	.*	.158	.12
45090	74HCT573N	DIP-20	Octal transparent D-type latch w/ 3-st. output	.40	.332	.227

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 74LCX Series (3.3V)

For more Fairchild 74LCX  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
868900	74LCX04M	SOIC-14	Hex inverter	.*	\$.164	\$.13
868934	74LCX04MTC	TSSOP-14	Hex inverter	.*	.207	.172
784247	74LCX07M	SOIC-14	Hex buffer open drain output	.*	.165	.137
868969	74LCX08M	SOIC-14	Quad 2-input AND gate	.*	.185	.154
869056	74LCX125M	SOIC-14	Quad buffer with 3-st.	.*	.18	.137
869081	74LCX125MTC	TSSOP-14	Quad buffer with 3-st.	.*	.18	.146
869110	74LCX138M	SOIC-16	1-of-8 decoder/demultiplexer	.*	.218	.176
869152	74LCX138MTC	TSSOP-16	1-of-8 decoder/demultiplexer	.*	.192	.156
869179	74LCX14M	SOIC-14	Hex inverter	.*	.198	.161
869208	74LCX14MTC	TSSOP-14	Hex inverter	.*	.265	.196
784255	74LCX16244MTD	TSSOP-48	16-bit buffer/line driver	.70	.59	.466
784263	74LCX16240MTD	TSSOP-48	16-bit buffer/line driver	.70	.59	.466
869232	74LCX16244MTD	TSSOP-48	16-bit buffer/line driver	.70	.57	.444
869312	74LCX16245MTD	TSSOP-48	16-bit bidirectional transceiver	.70	.57	.444
784301	74LCX16373MTD	TSSOP-48	16-bit transparent latch	.71	.57	.466
869371	74LCX244MTC	TSSOP-20	Buffer/line driver	.*	.18	.15
869427	74LCX245MTC	TSSOP-20	Bidirectional transceiver	.*	.18	.15
869486	74LCX245WM	SOIC-20	Bidirectional transceiver	.*	.194	.19
869540	74LCX541MTC	TSSOP-20	Octal buffer/line driver	.*	.294	.245
869574	74LCX74M	SOIC-14	Dual D-type pos. edge trig. F-F	.*	.165	.127
869591	74LCX74MTC	TSSOP-14	Dual D-type pos. edge trig. F-F	.18	.119	.099

1 5V tolerant inputs 2 5V tolerant inputs and outputs 3 non-inverting

4 5V tolerant schmitt trigger inputs 5 3-state outputs, non-inverting 6 with 26Ω series resistors

## ON Semiconductor 74LCX Series

For more ON Semi 74LCX  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	5	100
796723	MC74LCX04DTG	SOIC-14	Hex inverter	.*	\$.308	\$.276
875667	MC74LCX08BDT	TSSOP-14	Quad 2-input AND gate	.*	.228	.216
875675	MC74LCX125D	SOIC-14	Quad buffer	.*	.224	.186
796766	MC74LCX125DTG	TSSOP-14	Quad buffer	.*	.183	.155
796803	MC74LCX138DTG	TSSOP-16	3-to-8 decoder/demultiplexer	.*	.192	.164
796820	MC74LCX137DTG	TSSOP-16	Quad 2-input multiplexer	.*	.202	.173
796900	MC74LCX244DTG	TSSOP-20	Octal buffer	.*	.262	.224
875819	MC74LCX244DW	SOIC-20	Octal buffer	.*	.329	.302
875851	MC74LCX245DW	SOIC-20	Octal transceiver	.64	.59	.435
796985	MC74LCX541DW	SOIC-20	Octal buffer flow through pin-out	.*	.351	.316
796846	MC74LCX16245DTG	TSSOP-48	16-bit transceiver	1.49	1.35	1.20
796862	MC74LCX16373DTG	TSSOP-48	16-bit transparent latch	1.49	1.35	1.20
796889	MC74LCX16374DTG	TSSOP-48	16-bit D-type flip-flops	1.21	.96	.72

1 with 5V tolerant inputs 2 with 5V tolerant inputs/outputs 3 3-state, non-inverting

4 non-inverting 5 3-state, inverting

## Texas Instruments 74LV/LVC Series

For more TI 74LV/LVC  
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Part No.	Product No.	Pkg.	Description	1	5	100
816755	SN74LV00AD	SOIC-14	Quad 2-input positive NAND gates	.*	\$.147	\$.137
816780	SN74LV02APW	TSSOP-14	Quad 2-input positive NOR gates	.*	.362	.341
917097	SN74LV04AD	SOIC-14	Hex inverters	.*	.147	.137
816819	SN74LV04APW	TSSOP-14	Hex inverters	.*	.172	.16
816851	SN74LV05ADE4	SOIC-14	Hex inverters w/ open-drain outputs	.*	.144	.136
816886	SN74LV06AD	SOIC-14	Hex inverter buffers/drivers w/ open-drain	.*	.362	.341
816915	SN74LV06ADE4	SOIC-14	Hex inverter buffers/drivers w/ open-drain	.*	.362	.341
917177	SN74LV08AD	SOIC-14	Quad 2-input positive AND gates	.*	.147	.137
816958	SN74LV08ADE4	SOIC-14	Quad 2-input positive AND gates	.*	.147	.137
756545	SN74LV1608DCKR	SC70	Single 2-input positive AND gates	.*	.108	.101
917231	SN74LV14AD	SOIC-14	Hex Schmitt trigger inverters	.*	.172	.16
817221	SN74LV21APW	TSSOP-14	Dual 4-input positive AND gates	.55	.483	.455
817379	SN74LV32AD	SOIC-14	Quad 2-input positive OR gates	.*	.172	.16
817408	SN74LV32APWT	TSSOP-14	Quad 2-input positive OR gates	.*	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

For more Texas Instruments visit our website at [www.Jameco.com](http://www.Jameco.com)

# 74LV/LVC, 74LVT/LVTH, 74LVX/LVXC, 74VHC/VHCT Series

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## TEXAS INSTRUMENTS 74LV/LVC (Continued)

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
917185	SN74LV125AD	SOIC-14	Quad bus buffer gates w/ 3-st. outputs ..	* .196	.183	
816982	SN74LV125ATD	SOIC-14	Quad bus buffer gates w/ 3-st. outputs ..	* .295	.275	
817011	SN74LV125ATPW	TSSOP-14	Quad bus buffer gates w/ 3-st. outputs ..	* .295	.275	
917214	SN74LV138AD	SOIC-16	3-to-8 line decoder/demultiplexer .....	* .246	.229	
817061	SN74LV138ATD	SOIC-16	3-to-8 line decoder/demultiplexer .....	* .29	.273	
817088	SN74LV138ATPW	TSSOP-16	3-to-8 line decoder/demultiplexer .....	* .29	.273	
817141	SN74LV165AD	SOIC-16	Parallel-load 8-bit shift registers .....	* .435	.409	
817176	SN74LV166AD	SOIC-16	8-bit parallel-load shift registers .....	.79	.72	.68
817205	SN74LV175AD	SOIC-16	Quad D-type flip-flops w/ clear .....	.59	.51	.50
817256	SN74LV240ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs ....	* .386	.364	
917329	SN74LV244ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs ....	* .27	.252	
817281	SN74LV244ADWE4	SOIC-20	Octal buffers/drivers w/ 3-st. outputs ....	* .265	.25	
917353	SN74LV245ADW	SOIC-20	Octal bus transceivers w/ 3-st. outputs ..	* .386	.364	
817310	SN74LV245APW	TSSOP-20	Octal bus transceivers w/ 3-st. outputs ..	* .386	.364	
817344	SN74LV273ADWE4	SOIC-20	Octal D-type flip-flops w/ clear .....	* .29	.273	
817432	SN74LV373ADW	SOIC-20	Octal transparent D-type latches w/ 3-st ..	* .386	.364	
817467	SN74LV373ATDW	SOIC-20	Octal transparent D-type latches w/ 3-st ..	* .314	.296	
817491	SN74LV373ATPW	TSSOP-20	Octal transparent D-type latches w/ 3-st ..	* .338	.318	
817660	SN74LV541ADW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs ...	.69	.62	.59
817694	SN74LV573APWT	TSSOP-20	Octal transparent D-type latches w/ 3-st ..	* Call	Call	Call
817715	SN74LV574ADW	SOIC-20	Octal edge-trig. D-type flip-flops w/ 3-st ..	* .386	.364	
817740	SN74LV594AD	SOIC-16	8-bit shift registers w/ output registers ..	.69	.62	.59
917388	SN74LV595AD	SOIC-16	8-bit shift registers w/ 3-st. output registers	.65	.58	.546
817521	SN74LV4051AD	SOIC-16	8-ch analog multiplexer/demultiplexer .....	.65	.60	.56
817547	SN74LV4051APW	TSSOP-16	8-ch analog multiplexer/demultiplexer .....	.65	.60	.56
817571	SN74LV4052AD	SOIC-16	Dual 4-channel analog MUX/DEMUX .....	* .338	.318	
817601	SN74LV4053APW	TSSOP-16	Triple 2-channel analog MUX/DEMUX .....	.65	.60	.56
817635	SN74LV4066AD	SOIC-14	Quad bilateral analog switches .....	.65	.60	.56

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## IDT 74LVC Series

NEW

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Part No.	Product No.	Pkg.	Description	1	10	100
1611006	74LVC16245APA	TSSOP-48	3.3V CMOS 16-bit bus trans. w/ 3-st output, 5V input	.68	.63	.61

## TEXAS INSTRUMENTS 74LVT Series

For more TI 74LVT  
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Part No.	Product No.	Pkg.	Description	1	10	100
757724	SN74LVT125D	SOIC-14	3.3V ABT quad bus buffer w/ 3-st. ..	* \$1.16	.98	.78
819585	SN74LVT240ADW	SOIC-20	3.3V ABT octal buffer/driver w/ 3-st. ....	.94	.80	.64
819614	SN74LVT244BPW	TSSOP-20	3.3V ABT octal buffer/driver w/ 3-st. ....	.64	.59	.441
819526	SN74LVT16248D	SSOP-48	3.3V ABT 16-bit buffers/drivers w/ 3-st. ....	1.49	1.19	.89
819551	SN74LVT16248D	SSOP-48	3.3V ABT 16-bit bus trans. w/ 3-st. ....	1.75	1.28	.88

## TEXAS INSTRUMENTS 74LVTH Series

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Part No.	Product No.	Pkg.	Description	1	10	100
819770	SN74LVTH240D	SOIC-20	3.3V ABT octal buffers/drivers w/ 3-st. ....	* \$87	.71	.59
819796	SN74LVTH241D	SOIC-20	3.3V ABT octal buffers/drivers w/ 3-st. ....	.87	.71	.59
757943	SN74LVTH244APW	TSSOP-20	3.3V ABT octal buffers/drivers w/ 3-st. ....	.79	.62	.441
758022	SN74LVTH273D	SOIC-20	3.3V ABT octal D-type F-F w/ clear .....	.79	.63	.518
819825	SN74LVTH273PW	TSSOP-20	3.3V ABT octal D-type F-F w/ clear .....	.79	.62	.441
819850	SN74LVTH373D	SOIC-20	3.3V ABT octal edge-trig D-type F-F w/ 3-st. ....	.79	.64	.53
819921	SN74LVTH541PW	TSSOP-20	3.3V ABT octal bus buffers/drivers w/ 3-st. ....	1.65	1.37	1.11
758049	SN74LVTH573D	SOIC-20	3.3V ABT octal transparent D-type latches w/ 3-st. ....	.79	.64	.53
819631	SN74LVTH16373D	SSOP-48	3.3V ABT 16-bit transparent D-type latches w/ 3-st. ....	1.40	1.18	.94
819657	SN74LVTH16501D	SSOP-56	3.3V ABT 18-bit universal bus brx w/ 3-st. ....	1.75	1.39	1.04
819681	SN74LVTH16541D	SSOP-48	3.3V ABT 16-bit buffers/drivers w/ 3-st. ....	1.75	1.39	1.04
819711	SN74LVTH2245D	SOIC-20	3.3V ABT octal bus transceivers w/ 3-st. ....	.79	.62	.441
819745	SN74LVTH2245PW	TSSOP-20	3.3V ABT octal bus transceivers w/ 3-st. ....	.70	.518	.431

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
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## 74LVT/LVTH Series (3.3V)

For more Fairchild 74LVT/LVTH  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
784327	74LVT16224MTD	TSSOP-48	16-bit buffer/line driver w/ 3-st. ....	* .78	.63	.518
869611	74LVT16244MTD	TSSOP-48	16-bit buffer/line driver w/ 3-st. ....	.78	.63	.495
869638	74LVT244MTC	TSSOP-20	Octal buffer/line driver w/ 3-st. ....	* .277	.272	.412
784351	74LVTH16245MTD	TSSOP-48	16-bit transceiver w/ 3-st. ....	.67	.537	.424
784360	74LVTH244MTC	TSSOP-20	Octal buffer/line driver w/ 3-st. ....	* .34	.274	

1 3-state outputs, non-inverting 2 with 25Ω series resistors

## ON Semiconductor® 74LVX Series

For more ON Semi 74LVX  
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Part No.	Product No.	Pkg.	Description	1	10	100
797005	MC74LVX08DT	TSSOP-14	Quad 2-input NAND gate .....	* \$208	.187	
797144	MC74LVXC3245DTG	TSSOP-24	Configurable dual supply octal trans	1.75	1.58	1.43
797064	MC74LVX425DTG	TSSOP-24	Dual supply octal translating trans	1.19	1.12	.90
797101	MC74LVX4245DWG	SOIC-24	Dual supply octal translating trans	1.75	1.58	1.43

1 with 5V tolerant inputs 2 3-state outputs

## 74LVX/LVXC (3.3V)

For more Fairchild 74LVX/LVXC  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
784378	74LVX00MTC	TSSOP-14	Quad 2-input AND gate .....	* \$182	.146	
784394	74LVX132M	SOIC-14	Quad 2-input NAND schmitt trigger .....	* .27	.225	
869689	74LVX14MTC	TSSOP-14	Hex inverter w/ schmitt trigger input .....	* .192	.156	
869718	74LVX3245MTC	TSSOP-24	8-bit dual supply translating trans, w/ 3-st. ....	1.13	.94	.75
784423	74LVX541M	SOIC-20	Octal buffer/line driver w/ 3-st. (non-inverting) ...	* .259	.207	
869734	74LVXC3245MTC	TSSOP-24	8-bit dual supply volt. interface trans. w/ 3-st. ....	.83	.69	.549
784431	74LVXC4245QSC	QSOQ-24	8-bit dual supply volt. interface trans. w/ 3-st. ....	.87	.86	.74

## ON Semiconductor® 74VHC Series

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Part No.	Product No.	Pkg.	Description	1	10	100
875915	MC74VHC1G08DT	SOT-23/5	Single 2-input AND gate .....	★ Call	Call	Call
797187	MC74VHC14D	SOIC-14	Hex schmitt inverter .....	* .233	.167	
875931	MC74VHC1G66DT	SOT-23/5	Single supply analog switch .....	★ Call	Call	Call
875958	MC74VHC1G125DF	SOT-353	Non-inverting buffer/CMOS logic level shifter	★ Call	Call	Call
797161	MC74VHC138D	SOIC-16	3-to-8 line decoder .....	.60	.54	.363

★ Please call or visit our website for minimum order quantity and pricing

## 74VHC/VHCT Series

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Part No.	Product No.	Pkg.	Description	1	10	100
869769	74VHC00M	SOIC-14	Quad 2-input NAND gate .....	* \$152	.142	
784491	74VHC04MTC	TSSOP-14	Hex inverter .....	* .262	.196	
869822	74VHC123AM	SOIC-16	Dual retrig. mono. multivibrator .....	* .198	.165	
869857	74VHC138M	SOIC-16	3-to-8 decoder/demultiplexer .....	* .259	.207	
869873	74VHC14M	SOIC-14	Hex schmitt inverter .....	* .176	.153	
784520	74VHC161284MTD	TSSOP-48	IEEE 1284 transceiver .....	1.08	.98	.88
784538	74VHC161M	SOIC-16	4-bit binary cntn w/ asynch. clear .....	* .311	.259	
869911	74VHC244MTC	TSSOP-20	Octal buffer/line driver w/ 3-st. ....	* .166	.138	
784554	74VHC245M	SOIC-20	Octal bidirectional trans. w/ 3-st. ....	* .177	.147	
784562	74VHC245MTC	TSSOP-20	Octal bidirectional trans. w/ 3-st. ....	* .177	.147	
869937	74VHC32M	SOIC-14	Quad 2-input OR gate .....	* .152	.142	
784571	74VHC4040M	SOIC-16	12-stage binary counter .....	.74	.63	.424
784589	74VHC4046M	SOIC-16	CMOS phase lock loop .....	* .334	.267	
870014	74VHC573M	SOIC-20	Octal D-type latch w/ 3-st. ....	* .208	.173	
870031	74VHC595MTC	TSSOP-16	8-bit shift reg. w/ output latches .....	* .193	.155	
784600	74VHCT04AM	SOIC-14	Hex inverter .....	* .11	.90	
784642	74VHCT245AM	SOIC-20	Octal buffer/line driver w/ 3-st. ....	* .177	.147	
784677	74VHCT74AMTC	TSSOP-14	Dual D-type F-F w/ preset & clear .....	* .281	.206	
784685	74VHC04MTC	TSSOP-14	Hex inverter .....	* .262	.189	

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# 74ALS & 74LS Series

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## TEXAS INSTRUMENTS 74ALS Series

For more TI 74ALS  
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* Minimum order 5 pieces						
Part No.	Product No.	Pkg.	Description	1	5	50
832245	SN74ALS00AED4	SOIC-14	Quad 2-input positive NAND gates	...	...	...
832261	SN74ALS02AED4	SOIC-14	Quad 2-input positive NOR gates	...	...	...
832296	SN74ALS02AN	DIP-14	Quad 2-input positive NOR gates	...	...	...
832333	SN74ALS03BD	SOIC-14	Quad 2-input pos. NAND gates w/ open collector	...	...	...
832368	SN74ALS05AN	DIP-14	Hex inverter w/ open collector outputs	...	...	...
832392	SN74ALS09D	SOIC-14	Quad 2-input pos. AND gates w/ open collector	...	...	...
832940	SN74ALS21AD	SOIC-14	Dual 4-input positive AND gates	...	...	...
833150	SN74ALS30AD	SOIC-14	8-input positive NAND gates	...	...	...
833213	SN74ALS38BD	SOIC-14	Quad 2-input pos. NAND buffers w/ open collector	...	...	...
833248	SN74ALS38BN	DIP-14	Quad 2-input pos. NAND buffers w/ open collector	...	...	...
832544	SN74ALS109AN	DIP-16	Dual J-K pos. edge-trig. F-F w/ clear & preset	...	...	...
832579	SN74ALS112AD	SOIC-16	Dual J-K neg. edge-trig. F-F w/ clear & preset	...	...	...
832608	SN74ALS133D	SOIC-16	13-input positive NAND gates	...	...	...
832641	SN74ALS133NE4	DIP-16	13-input positive NAND gates	...	...	...
832675	SN74ALS151D	SOIC-16	1-of-8 data selector/multiplexers	...	...	...
832704	SN74ALS157AD	SOIC-16	Quad 1-of-2 data selectors/multiplexers	...	...	...
832755	SN74ALS157ANE4	DIP-16	Quad 1-of-2 data selectors/multiplexers	...	...	...
832780	SN74ALS163BD	SOIC-16	Synch. 4-bit decade/binary counter	...	...	...
832819	SN74ALS164AD	SOIC-14	8-bit parallel-out serial shift register	...	...	...
913993	SN74ALS164AN	DIP-14	8-bit parallel-out serial shift register	...	...	...
832835	SN74ALS166D	SOIC-16	Parallel-load 8-bit shift register	...	...	...
832878	SN74ALS174D	SOIC-16	Hex/quad D-type flip-flops w/ clear	...	...	...
832907	SN74ALS175D	SOIC-16	Hex/quad D-type flip-flops w/ clear	...	...	...
832923	SN74ALS191AN	DIP-16	Synch. 4-bit up/down binary counters	...	...	...
832974	SN74ALS240AD	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	...	...	...
833002	SN74ALS241CDW	SOIC-20	Octal buffers/drivers w/ 3-st. outputs	...	...	...
833045	SN74ALS244C-1N	DIP-20	Octal buffers/line drivers w/ 3-st. outputs	...	...	...
833125	SN74ALS299D	SOIC-20	8-bit universal shift/storage reg. w/ 3-st. outputs	...	...	...
833272	SN74ALS755ANT	DIP-24	Octal D-type edge-trig. F-F w/ 3-st. outputs	...	...	...
833301	SN74ALS756BN	DIP-20	Octal D-type edge-trig. F-F w/ 3-st. outputs	...	...	...
833352	SN74ALS640BN	DIP-20	Octal bus transceivers w/ 3-st. outputs	...	...	...
833379	SN74ALS641ADW	SOIC-20	Octal bus trans. w/ open-collector outputs	...	...	...
914030	SN74ALS642A-1DW	SOIC-20	Octal bus trans. w/ open-collector outputs	...	...	...
833432	SN74ALS645A-1DW	SOIC-20	Octal bus trans. w/ 3-st. outputs	...	...	...
833459	SN74ALS646AN	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	...	...	...
833483	SN74ALS652A-INT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	...	...	...
833512	SN74ALS652ADW	SOIC-24	Octal bus trans./reg. w/ 3-st. outputs	...	...	...
833547	SN74ALS652ANT	DIP-24	Octal bus trans./reg. w/ 3-st. outputs	...	...	...
914072	SN74ALS760N	DIP-20	Octal buffer/line drivers w/ open-collector outputs	...	...	...
833571	SN74ALS857N	DIP-24	Hex 2-to-1 universal multiplexers w/ 3-st. outputs	...	...	...
833601	SN74ALS873BN	DIP-24	Dual 4-bit D-type latches w/ 3-st. outputs	...	...	...
833635	SN74ALS874BDW	SOIC-24	Dual 4-bit D-type edge-triggered F-F	...	...	...
833660	SN74ALS990D	SOIC-20	8-bit D-type transparent read-back latch	...	...	...
833694	SN74ALS990N	DIP-20	8-bit D-type transparent read-back latch	...	...	...
833723	SN74ALS992NT	DIP-24	8-bit D-type transparent read-back latch w/ 3-st. outputs	...	...	...
832421	SN74ALS1005D	SOIC-14	Hex inverting buffers w/ open collector outputs	...	...	...
832456	SN74ALS1005N	DIP-14	Hex inverting buffers w/ open collector outputs	...	...	...
832481	SN74ALS1034D	SOIC-14	Hex drivers	...	...	...
832501	SN74ALS1035N	DIP-14	Hex non-inverting buffers w/ open collector outputs	...	...	...
971106	SN74ALS1035NE4	DIP-14	Hex non-inverting buffers w/ open collector outputs	...	...	...
833070	SN74ALS29827DW	SOIC-24	10-bit buffers & bus drivers w/ 3-st. outputs	...	...	...
833096	SN74ALS29827NT	DIP-24	10-bit buffers & bus drivers w/ 3-st. outputs	...	...	...

## 74ALS Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
310295	74ALS244AM	SOIC-20	Octal 3-state bus drivers	...	...	...

## IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts • Color: white

22104

Part No.	Cross Ref.	Description	1	10	25
22104	JTC16	16-pin (for 8, 14 and 16-pin ICs)	...	...	...
22120	JTC20	20-pin (for 18 and 20-pin ICs)	...	...	...

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## TEXAS INSTRUMENTS 74LS Series

For more TI 74LS  
visit [www.Jameco.com](http://www.Jameco.com)

* Minimum order 5 pieces						
Part No.	Product No.	Pkg.	Description	1	5	50
283725	SN74LS00N	DIP-14	Quad 2-input NAND gate	...	...	...
283741	SN74LS02N	DIP-14	Quad 2-input NOR gate	...	...	...
815681	SN74LS03N	DIP-14	Quad 2-input pos. AND gates w/ open-collector	...	...	...
815701	SN74LS04DG4	SOIC-14	Hex inverters	...	...	...
283792	SN74LS04N	DIP-14	Hex inverter	...	...	...
916941	SN74LS05DR	SOIC-14	Hex inverter w/ open collector outputs	...	...	...
295401	SN74LS08N	DIP-14	Quad 2-input AND gate	...	...	...
295460	SN74LS14N	DIP-14	Hex inverter Schmitt trigger	...	...	...
816042	SN74LS26D	SOIC-14	Quad 2-input high-voltage pos. NAND gates	...	...	...
816085	SN74LS26NE4	DIP-14	Quad 2-input high-voltage pos. NAND gates	...	...	...
816114	SN74LS280N	DIP-14	9-bit odd/even parity generators/checkers	...	...	...
816149	SN74LS30N	DIP-14	8-input positive NAND gates	...	...	...
816173	SN74LS31N	DIP-16	Delay elements	...	...	...
295515	SN74LS32N	DIP-14	Quad 2-input OR gate	...	...	...
295566	SN74LS38N	DIP-14	Quad 2-input NAND gate buffer (O.C.)	...	...	...
917062	SN74LS47D	SOIC-16	BCD-to-Seven segment decoders/drivers	...	...	...
295582	SN74LS47N	DIP-16	BCD-to-7 segment decoder/driver (O.C.)	...	...	...
816536	SN74LS51N	DIP-14	AND-OR invert gates	...	...	...
816721	SN74LS73AD	SOIC-14	Dual J-K flip-flops w/ clear	...	...	...
295726	SN74LS74AN	DIP-14	Dual D flip-flop	...	...	...
295742	SN74LS85N	DIP-16	4-bit magnitude comparator	...	...	...
295751	SN74LS86N	DIP-14	Quad EXCLUSIVE-OR gate	...	...	...
295769	SN74LS90N	DIP-14	Decade counter	...	...	...
295822	SN74LS93N	DIP-14	4-bit binary counter	...	...	...
815736	SN74LS107AN	DIP-14	Dual J-K flip-flops w/ clear	...	...	...
300880	SN74LS123N	DIP-16	Dual mono. multivibrator w/ clear	...	...	...
916975	SN74LS132D	SOIC-14	Quad 2-input pos. NAND schmitt trig	...	...	...
301233	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer	...	...	...
815795	SN74LS155AD	SOIC-16	Dual 2-to-4 line decoders/demultiplexers	...	...	...
917011	SN74LS156D	SOIC-16	Dual 2-to-4 line decoders/demultiplexers	...	...	...
815816	SN74LS156N	DIP-16	Dual 2-to-4 line decoders/demultiplexers	...	...	...
917038	SN74LS158N	DIP-16	Quad 2-to-1 line data selectors/multiplexers	...	...	...
815841	SN74LS163AD	SOIC-16	Synchronous 4-bit counters	...	...	...
815875	SN74LS169BD	SOIC-16	Synch 4-bit up/down binary counters	...	...	...
815891	SN74LS175D	SOIC-16	Hex/quad D-type flip-flops w/ clear	...	...	...
301831	SN74LS193N	DIP-16	Binary up/down counter w/ clear	...	...	...
301858	SN74LS194N	DIP-16	4-bit bi-directional shift register	...	...	...
815921	SN74LS243N	DIP-14	Quad bus transceivers	...	...	...
815947	SN74LS244DWG4	SOIC-20	Octal buffers & line drivers w/ 3-st	...	...	...
308312	SN74LS244AN	DIP-20	Octal driver tri-state	...	...	...
308321	SN74LS245N	DIP-20	Octal bus transceiver tri-state	...	...	...
815980	SN74LS253D	SOIC-16	Dual 4-to-1 line data selectors/multiplexers w/ 3-st	...	...	...
816018	SN74LS258BNE4	DIP-16	Quad 2-to-1 line data selectors/multiplexers	...	...	...
816202	SN74LS348N	DIP-16	8-to-3 line priority encoders w/ 3-st. outputs	...	...	...
816237	SN74LS367AD	SOIC-16	Hex bus drivers w/ 3-st. outputs	...	...	...
816253	SN74LS368AN	DIP-16	Hex bus drivers w/ 3-st. outputs	...	...	...
308460	SN74LS373N	DIP-20	Octal D flip-flop tri-state	...	...	...
308478	SN74LS374N	DIP-20	Octal D flip-flop edge-trig. tri-state	...	...	...
816288	SN74LS375N	DIP-16	4-bit bistable latches	...	...	...
816317	SN74LS377DW	SOIC-20	Octal, Hex and Quad D-type F-F w/ enable	...	...	...
816341	SN74LS378N	DIP-16	Octal, Hex and Quad D-type F-F w/ enable	...	...	...
816392	SN74LS390D	SOIC-16	Dual 4-bit decade & binary counters	...	...	...
816421	SN74LS390N	DIP-16	Dual 4-bit decade & binary counters	...	...	...
816456	SN74LS423D	SOIC-16	Retriggerable mono multivibrators	...	...	...
816481	SN74LS423N	DIP-16	Retriggerable mono multivibrators	...	...	...
816561	SN74LS624N	DIP-14	Voltage controlled oscillators	...	...	...
816595	SN74LS640-1N	DIP-20	Octal bus transceivers	...	...	...
816624	SN74LS641DW	SOIC-20	Octal bus transceivers	...	...	...
816641	SN74LS652DW	SOIC-24	Octal bus transceivers & registers	...	...	...
816675	SN74LS670N	DIP-16	4-by-4 register files w/ 3-st. outputs	...	...	...
816376	SN74LS38D	SOIC-14	Quad 2-input pos. NAND buffers w/ open-collector	...	...	...

★ Please call or visit our website for minimum order quantity and pricing



Thousands of additional ICs are now available on our website.

74LS Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
46252	74LS00NⓇ**	DIP-14	Quad 2-input NAND gate .....	\$.41	\$.349	\$.24
46287	74LS02NⓇ**	DIP-14	Quad 2-input NOR gate .....	.45	.41	.34
46316	74LS04NⓇ**	DIP-14	Hex inverter .....	.41	.26	.23
46341	74LS05NⓇ*	DIP-14	Hex inverter (O.C.) .....	.41	.35	.265
46359	74LS06NⓇ	DIP-14	Hex inverter buffer/driver (O.C.) .....	.74	.62	.50
46367	74LS07NⓇ	DIP-14	Hex buffer/driver (O.C. hi-voltage) .....	.64	.57	.49
46375	74LS08NⓇ**	DIP-14	Quad 2-input AND gate .....	.37	.307	.23
46391	74LS09NⓇ	DIP-14	Quad 2-input AND gate (O.C.) .....	.46	.349	.265
46404	74LS10NⓇ*	DIP-14	Triple 3-input NAND gate .....	.46	.30	.276
46439	74LS11N*	DIP-14	Triple 3-input AND gate .....	.42	.312	.264
46640	74LS14NⓇ*	DIP-14	Hex inverter Schmitt trigger .....	.40	.349	.265
47095	74LS20NⓇ*	DIP-14	Dual 4-input NAND gate .....	.37	.264	.24
47108	74LS21NⓇ	DIP-14	Dual 4-input AND gate .....	.32	.269	.202
47378	74LS27NⓇ	DIP-14	Triple 3-input NOR gate .....	.28	.23	.18
47458	74LS30NⓇ*	DIP-14	8-input NAND gate .....	.28	.238	.179
47466	74LS32NⓇ**	DIP-14	Quad 2-input OR gate .....	.35	.312	.246
47773	74LS42NⓇ	DIP-14	BCD-to-decimal decoder/driver .....	1.01	.86	.65
47790	74LS47NⓇ*	DIP-16	BCD-to-7 segment decoder/driver (O.C.) .....	.94	.68	.59
47811	74LS48N	DIP-16	BCD-to-7 segment decoder/driver .....	4.99	4.24	3.18
47992	74LS73NⓇ*	DIP-14	Dual JK flip-flop w/ clear, center VCC/GND .....	1.03	.84	.64
48004	74LS74NⓇ**	DIP-14	Dual D flip-flop .....	.36	.25	.22
48021	74LS75NⓇ*	DIP-16	4-bit bi-stable latch .....	.86	.73	.66
48039	74LS76N	DIP-16	Dual JK flip-flop with preset & clear .....	.83	.68	.61
48063	74LS83N	DIP-16	4-bit binary full adder .....	1.95	1.71	1.54
48071	74LS85NⓇ*	DIP-16	4-bit magnitude comparator .....	.42	.382	.345
48098	74LS86NⓇ*	DIP-14	Quad EXCLUSIVE-OR gate .....	.37	.30	.22
48119	74LS90NⓇ*	DIP-14	Decade counter .....	.93	.81	.69
48143	74LS92NⓇ	DIP-14	Divide-by-12 counter .....	1.09	.93	.69
48151	74LS93NⓇ*	DIP-14	4-bit binary counter .....	.89	.79	.70
48178	74LS95N	DIP-14	4-bit parallel-access shift register .....	1.13	1.01	.87
46412	74LS107NⓇ	DIP-14	Dual JK flip-flop with clear .....	.87	.62	.432
46421	74LS109NⓇ	DIP-16	Dual JK pos. edge-trig. flip-flop .....	.73	.56	.42
46447	74LS112NⓇ	DIP-16	Dual JK neg. edge-trig. flip-flop .....	.39	.299	.227
46471	74LS122NⓇ	DIP-14	Retrig. mono. multivibrator comm. CLK .....	.56	.42	.324
46480	74LS123NⓇ*	DIP-16	Dual mono. multivibrator with clear .....	.37	.319	.239
46501	74LS125NⓇ*	DIP-14	Quad bus buffer neg. enable tri-state .....	.36	.31	.233
46527	74LS126NⓇ	DIP-14	Quad bus buffer tri-state .....	.45	.414	.311
46551	74LS132NⓇ	DIP-14	Quad 2-input NAND Schmitt trigger.....	.40	.351	.302
46586	74LS136NⓇ	DIP-14	Quad EXCLUSIVE-OR gate (O.C.) .....	.64	.48	.36
46607	74LS138NⓇ**	DIP-16	3-to-8 decoder/demultiplexer .....	.52	.423	.322
46623	74LS139NⓇ*	DIP-16	2-to-4 decoder/demultiplexer .....	.37	.291	.23
46666	74LS145NⓇ	DIP-16	BCD-to-decimal decoder/driver (O.C.) .....	.73	.55	.423
46682	74LS148NⓇ	DIP-16	8-to-3 priority encoder .....	.62	.519	.389
46703	74LS151NⓇ*	DIP-16	8-input multiplexer .....	.45	.349	.269
46720	74LS153NⓇ	DIP-16	Dual 4-to-1 selector/multiplexer .....	.45	.357	.344
46738	74LS154NⓇ	DIP-24	4-to-16 line decoder/demultiplexer .....	5.15	4.59	3.69
46754	74LS155NⓇ*	DIP-16	Dual 2/4 demultiplexer .....	.85	.72	.54
46771	74LS157NⓇ*	DIP-16	Quad 2/1 data selector .....	.54	.423	.319
46800	74LS160N	DIP-16	Decade counter with asynch. clear .....	2.59	2.49	2.39
46818	74LS161NⓇ	DIP-16	Synch 4-bit counter .....	.43	.366	.275
46842	74LS163NⓇ	DIP-16	Fully synch. 4-bit counter .....	.46	.349	.265
46851	74LS164NⓇ	DIP-14	8-bit serial shift register .....	.52	.43	.315
46877	74LS165N	DIP-16	8-bit serial shift register, parallel load .....	.41	.391	.31
46906	74LS169NⓇ	DIP-16	Synch. binary up/down counter .....	.61	.47	.35
46922	74LS173NⓇ	DIP-16	4-bit D-type reg. tri-state .....	.72	.61	.458
46931	74LS174NⓇ*	DIP-16	Hex D flip-flop with clear .....	.56	.359	.269
46957	74LS175NⓇ*	DIP-16	Quad D flip-flop with clear .....	.33	.31	.291
46973	74LS181NⓇ	DIP-24	Arithmetic logic unit/function gen. ....	2.58	2.16	1.47
46990	74LS190N	DIP-16	Synchronous up/down counter .....	2.95	2.65	2.55
47001	74LS191NⓇ	DIP-16	Up/down binary counter .....	.58	.49	.37
47010	74LS192N	DIP-16	Decade up/down counter w/ clear .....	3.49	3.05	2.85
47036	74LS193NⓇ*	DIP-16	Binary up/down counter w/ clear .....	.59	.49	.45
47052	74LS194NⓇ	DIP-16	4-bit bi-directional shift register .....	.81	.69	.55
47124	74LS221NⓇ	DIP-16	Dual monostable multivibrator .....	.36	.29	.28

\* 10 pcs. in 74LS series IC cabinet kit, above right    \*\* 20 pcs. in 74LS series IC cabinet kit, above right

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product    Ⓡ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 1.

74LS Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
47141	74LS240N*	DIP-20	Octal invert. line driver tri-state .....	\$.61	\$.519	\$.389
47183	74LS244NⓇ*	DIP-20	Octal driver tri-state .....	.53	.444	.336
47212	74LS245NⓇ*	DIP-20	Octal bus transceiver tri-state .....	.64	.48	.416
47247	74LS247NⓇ	DIP-16	BCD to 7-segment decoder/driver (O.C.) .....	1.03	.88	.66
47327	74LS259N	DIP-16	8-bit addressable latch .....	.46	.357	.328
47360	74LS266NⓇ	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.) .....	.69	.52	.395
47386	74LS273NⓇ*	DIP-20	Octal D-type flip-flop with clear .....	.59	.471	.364
47407	74LS279NⓇ	DIP-16	Quad set-rest latches .....	.50	.425	.319
47423	74LS283N	DIP-16	4-bit binary full add with fast carry .....	.53	.453	.35
47440	74LS299NⓇ	DIP-20	8-bit universal shift/storage register ...	1.59	1.35	1.01
47562	74LS367NⓇ	DIP-16	Hex buffer tri-state .....	.42	.357	.268
47600	74LS373NⓇ*	DIP-20	Octal D flip-flop tri-state .....	.64	.49	.39
47634	74LS374NⓇ*	DIP-20	Octal D flip-flop edge-trig. tri-state .....	.54	.465	.378
47669	74LS377NⓇ	DIP-20	Octal D register common enable .....	.43	.276	.207
47722	74LS390NⓇ	DIP-16	Dual 4-bit decade counter .....	.71	.61	.49
47731	74LS393NⓇ	DIP-14	Dual 4-bit binary counter .....	.69	.59	.44
47861	74LS540NⓇ	DIP-20	Octal invert. buffer/line driver tri-state .....	.99	.76	.63
47870	74LS541NⓇ	DIP-20	Octal buffer/line driver tri-state .....	.67	.57	.46
64418	74LS573N	DIP-20	Octal D-type flip-flop latch tri-state .....	2.05	1.85	1.55
64426	74LS574NⓇ	DIP-20	Octal D-type flip-flop edge-trig. tri-state ...	2.15	1.89	1.69
103974	74LS595NⓇ	DIP-16	8-bit serial-to-parallel shift reg. 3-state ...	5.25	4.46	3.35
47950	74LS645NⓇ	DIP-20	Octal bus transceiver tri-state (O.C.) .....	1.30	1.11	.83
47984	74LS688NⓇ	DIP-20	8-bit magnitude comparator .....	1.45	1.23	.92

\* 10 pcs. in 74LS series IC cabinet kit, below

74LS Series IC Kit

SAVE \$71

Includes:

20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 165 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961	420 pcs. 74LS IC kit	6.7	\$135.55	\$123.95
130391	Refill for 84961 (420 pcs.)	2.0	116.65	109.95

Tiny Logic® Series

For more Fairchild Tiny Logic visit [www.Jameco.com](http://www.Jameco.com)

\* Minimum order 10 pieces

Part No.	Product No.	Pkg.	Description	1	10	100
787384	NC7S00M5Ⓡ♣	SOT-23/5	Single 2-input NAND gate .....	★	Call	Call
873645	NC7S04M5Ⓡ♣	SOT-23/5	Single inverter .....	★	Call	Call
873830	NC7S04M5XⓇ	SOT-23/5	Single unbuffered inverter .....	*	.137	.123
873688	NC7S08M5Ⓡ♣	SOT-23/5	Single 2-input AND gate .....	★	Call	Call
873725	NC7S08P5XⓇ	SC70/5	Single 2-input AND gate .....	*	.098	.088
873741	NC7S14M5Ⓡ	SOT-23/5	Schmitt input inverter .....	.32	.285	.259
787405	NC7S14P5Ⓡ♣	SC70/5	Schmitt input inverter .....	★	Call	Call
787413	NC7ST04M5Ⓡ	SOT-23/5	Single inverter w/ TTL comp. inputs .....	.32	.284	.259
787421	NC7ST32P5Ⓡ♣	SC70/5	Single 2-input OR gate w/ TTL comp. inputs .....	★	Call	Call
873856	NC7SZ00M5Ⓡ♣	SOT-23/5	Single 2-input NAND gate .....	★	Call	Call
787430	NC7SZ00P5Ⓡ♣	SC70/5	Single 2-input NAND gate .....	★	Call	Call
873944	NC7SZ04M5Ⓡ♣	SOT-23/5	Single inverter .....	★	Call	Call
787456	NC7SZ05P5Ⓡ♣	SC70/5	Single inverter (open drain output) .....	★	Call	Call
874007	NC7SZ08M5Ⓡ♣	SOT-23/5	Single 2-input AND gate .....	★	Call	Call
874066	NC7SZ08P5Ⓡ♣	SC70/5	Single 2-input AND gate .....	★	Call	Call
874251	NC7SZ14M5Ⓡ♣	SOT-23/5	Single inverter w/ Schmitt trigger input ...	★	Call	Call
874322	NC7SZ14P5Ⓡ♣	SC70/5	Single inverter w/ Schmitt trigger input ...	★	Call	Call
874402	NC7SZ32M5Ⓡ♣	SOT-23/5	Single 2-input OR gate .....	★	Call	Call
874111	NC7SZ125M5Ⓡ♣	SOT-23/5	Buffer w/ 3-st. output .....	★	Call	Call
874138	NC7SZ125M5XⓇ	SOT-23/5	Buffer w/ 3-st. output .....	.21	.176	.158
874171	NC7SZ125P5Ⓡ♣	SC70/5	Single buffer w/ 3-st. output .....	★	Call	Call
874218	NC7SZ126M5Ⓡ♣	SOT-23/5	Single buffer w/ 3-st. output .....	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

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## Tiny Logic® Series (Cont.)

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Part No.	Product No.	Pkg.	Description	1	10	100
787464	NC7SZ126P5	SC70/5	Single buffer w/ 3-st. output	★	Call	Call
874509	NC7WZ04P6	SC70/6	Dual inverter	★	Call	Call
787472	NC7WZ07P6	SC70/6	Dual buffer w/ open drain outputs	★	Call	Call
787481	NC7WZ14P6	SC70/6	Dual inverter w/ Schmitt trigger inputs	★	Call	Call
874613	NC7WZ16P6	SC70/6	Dual buffer	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

## ON Semiconductor® ECL Logic Series

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Part No.	Product No.	Pkg.	Description	1	10	100
867149	MC10E016FN	PLCC-28	5V ECL 8-bit synch. binary up counter	\$10.39	\$9.47	\$8.61
867165	MC10E111FN	PLCC-28	5V ECL 1:9 diff. clock driver	9.29	8.43	7.67
867190	MC10EL11D	SOIC-8	5V ECL 1:2 diff. fan out buffer	5.89	5.19	4.59
867229	MC10EL32D	SOIC-8	5V ECL +2 divider	4.85	4.58	4.31
867253	MC10EL51D	SOIC-8	5V ECL diff. clock D flip-flop	4.55	4.43	4.31
867270	MC10EL57D	SOIC-16	5V ECL 4:1 diff. multiplexer	10.15	8.43	6.75
867309	MC10ELT20D	SOIC-8	5V TTL to diff. PECL translator	4.55	4.27	3.28
867333	MC10ELT21D	SOIC-8	5V diff. PECL to TTL translator	4.55	4.27	3.28
867368	MC10ELT22D	SOIC-8	5V dual TTL to diff. PECL translator	4.89	4.06	3.94
867392	MC10ELT24D	SOIC-8	5V TTL to diff. ECL translator	5.49	4.58	3.67
867421	MC10ELT25D	SOIC-8	-5V diff. ECL to TTL translator	5.49	4.58	3.67
791551	MC10H101P	PDIP-16	Quad 2-input OR/NOR gate	3.49	3.16	3.09
791578	MC10H102P	PDIP-16	Quad 2-input NOR gate	2.99	2.75	2.57
791594	MC10H105P	PDIP-16	Triple 2-3 input OR/NOR gate	3.09	2.82	2.57
791607	MC10H115P	PDIP-16	Quad line receiver	3.09	2.82	2.57
867456	MC10H116D	SOIC-16	Triple line receiver	5.25	4.89	4.02
867472	MC10H116FN	PLCC-20	Triple line receiver	4.75	4.44	3.65
867501	MC10H116P	DIP-16	Triple line receiver	3.16	2.96	2.66
791640	MC10H123PG	PDIP-16	Triple 4-3-3 input bus driver	3.59	3.38	3.17
867536	MC10H124FN	PLCC-20	Quad TTL-to-MECL translator w/ TTL strobe	6.95	6.53	5.22
791666	MC10H124PG	PDIP-16	Quad TTL-to-MECL translator w/ TTL strobe	6.35	5.82	5.78
867587	MC10H125FN	PLCC-20	Quad MECL-to-TTL translator	8.55	6.64	5.76
867616	MC10H125P	PDIP-16	Quad MECL-to-TTL translator	7.25	6.33	5.41
867641	MC10H131FN	PLCC-20	Dual D-type master-slave flip-flop	6.95	5.87	4.79
867667	MC10H131P	PDIP-16	Dual D-type master-slave flip-flop	6.09	5.91	5.41
791682	MC10H35FNG	PLCC-20	PECL-to-TTL translator	17.05	15.62	15.51
867721	MC10H351P	PDIP-20	Quad TTL/NMOS to PECL translator	21.05	19.13	17.39
866349	MC100EL11D	SOIC-8	5V ECL 1:2 diff. fan out buffer	5.19	4.47	3.75
866373	MC100EL15D	SOIC-16	5V ECL 1:4 clock distribution chip	4.55	4.19	4.14
791252	MC100EL16DG	SOIC-8	5V ECL diff. receiver	4.59	3.91	3.23
791279	MC100EL33DG	SOIC-8	5V ECL +4 divider	6.19	5.33	4.46
791295	MC100EL34DG	SOIC-16	5V ECL +2, +4, +8 clock generation chip	7.55	7.50	6.42
791316	MC100EL56DWG	SOIC-20	5V ECL dual diff. 2:1 multiplexer	9.35	8.48	8.27
866411	MC100EL57D	SOIC-16	5V ECL 4:1 diff. multiplexer	8.15	7.41	7.24
791341	MC100EL58DG	SOIC-8	5V ECL 2:1 multiplexer	6.25	5.69	5.17
791359	MC100EL91DWG	SOIC-20	5V triple PECL to -5V ECL translator	8.49	7.85	7.75
866453	MC100ELT20D	SOIC-8	5V TTL to diff. PECL translator	4.45	4.07	3.94
866488	MC100ELT21D	SOIC-8	5V diff. PECL to TTL translator	4.45	4.18	3.94
866541	MC100ELT23D	SOIC-8	5V dual diff. PECL to TTL translator	4.45	4.06	3.30
791391	MC100ELT24DG	SOIC-8	5V TTL to diff. ECL translator	4.45	3.92	3.20
866592	MC100ELT25D	SOIC-8	-5V differential ECL to TTL translator	4.45	4.06	3.94
791412	MC100EP08DTG	TSSOP-8	3.3V/5V ELC 2-input diff. XOR/XNOR	8.99	8.29	7.59
866621	MC100EP11D	SOIC-8	3.3V/5V ECL 1:2 diff. fan out buffer	7.19	6.54	5.95
866681	MC100EP16D	SOIC-8	3.3V/5V ECL diff. receiver/driver	6.25	5.68	5.17
866744	MC100LVE111FN	PLCC-28	3.3V ECL 1:9 diff. clock driver	11.05	8.89	6.75
866779	MC100LVEL11D	SOIC-8	3.3V ECL 1:2 diff. fan out buffer	5.89	4.59	3.98
866824	MC100LVEL14DW	SOIC-20	3.3V ECL 1:5 clock distribution chip	10.55	9.64	8.47
791439	MC100LVEL16DG	SOIC-8	3.3V ECL diff. receiver	4.69	4.26	3.47
866904	MC100LVEL29DW	SOIC-20	3.3V ECL dual diff. D-type F-F w/ set/clear	9.39	8.52	7.75
791455	MC100LVEL37DWG	SOIC-20	3.3V ECL 1:4 +1/-2 clock fan out buffer	13.65	11.71	9.81
791471	MC100LVEL51DG	SOIC-8	3.3V ECL diff. clock D flip-flop	5.45	5.31	5.17
791498	MC100LVEL56DWG	SOIC-20	3.3V ECL dual diff. 2:1 multiplexer	9.35	8.48	8.27
866963	MC100LVEL90DW	SOIC-20	-3.3V/-5V triple ECL to LVPECL translator	9.39	8.52	7.75
791519	MC100LVEL91DWG	SOIC-20	3.3V triple LVPECL to -3.3V to -5V ECL translator	10.55	9.53	8.47

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

## ON Semiconductor® ECL Logic (Cont.)

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Part No.	Product No.	Pkg.	Description	1	10	100
866998	MC100LVEL92DW	SOIC-20	5V triple PECL to LVPECL translator	\$10.55	\$9.64	\$8.47
867018	MC100LVELT22D	SOIC-8	3.3V dual LVTT/LVCMOS to diff. LVPECL translator	5.49	4.58	3.67
791535	MC100LVELT22DTG	TSSOP-8	3.3V dual LVTT/LVCMOS to diff. LVPECL translator	6.19	5.77	4.46
867069	MC100LVELT23D	SOIC-8	3.3V dual diff. LVPECL to LVTTTL translator	4.89	4.06	3.67
867093	MC100LVELT23DT	TSSOP-8	3.3V dual diff. LVPECL to LVTTTL translator	★	Call	Call

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## ON Semiconductor® MC14000 Series

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* Minimum order 10 pieces				1	10	100
Part No.	Product No.	Pkg.	Description	1	10	100
868029	MC14011BCP	PDIP-14	Quad 2-input NAND gate	\$0.50	\$0.382	\$0.352
791754	MC14011BCPG	PDIP-14	Quad 2-input NAND gate	*	.256	.215
791771	MC14011BDG	SOIC-14	Quad 2-input NAND gate	*	.301	.271
791842	MC14011UBD	SOIC-14	Quad 2-input NAND gate	*	.158	.146
791869	MC14012BCPG	PDIP-14	Dual 4-input NAND gate	★	Call	Call
868256	MC14015BCP	PDIP-16	Dual 4-bit static shift register	★	Call	Call
868272	MC14016BCP	PDIP-14	Quad analog switch/multiplexer	*	.284	.238
791914	MC14017BCPG	PDIP-16	Decade counter	*	.359	.303
868328	MC14017BD	SOIC-16	Decade counter	*	.396	.355
868387	MC14020BCP	PDIP-16	14-bit binary counter	★	Call	Call
868441	MC14021BCP	PDIP-16	8-bit static shift register	★	Call	Call
791973	MC14023BDG	SOIC-14	Triple 3-input NAND gate	*	.242	.198
792010	MC14025BCPG	PDIP-14	Triple 3-input NOR gate	★	Call	Call
868571	MC14027BCP	PDIP-16	Dual J-K flip-flop	*	.34	.309
792036	MC14028BCP	PDIP-16	BCD-to-Decimal/Binary-to-Octal decoder	*	.31	.262
792052	MC14029BCPG	PDIP-16	Binary / Decade up/down counter	★	Call	Call
792095	MC14040BCPG	PDIP-16	12-bit binary counter	*	.372	.312
868715	MC14042BCP	PDIP-16	Quad transparent latch	*	.425	.359
792108	MC14042BCPG	PDIP-16	Quad transparent latch	★	Call	Call
868774	MC14043BD	SOIC-16	CMOS MSI quad R-S latches	*	.378	.333
868820	MC14046BCP	PDIP-16	Phase-locked loop	*	.392	.363
792124	MC14046BCPG	PDIP-16	Phase-locked loop	★	Call	Call
792141	MC14049BDG	SOIC-16	Hex inverter/buffer	*	.327	.293
868942	MC14049UBCP	PDIP-16	Hex inverter/buffer	*	.398	.343
869021	MC14050BCP	PDIP-16	Non-inverting hex buffer	*	.368	.314
869101	MC14051BD	SOIC-16	8-ch multiplexer/demultiplexers	.45	.369	.333
869144	MC14052BCP	PDIP-16	Dual 4-ch analog multi/demultiplexer	*	.402	.334
869355	MC14066BCP	PDIP-14	Quad analog switch/Quad multiplexer	*	.347	.292
792167	MC14066BDG	SOIC-14	Quad analog switch/Quad multiplexer	*	.281	.255
792183	MC14067BCPG	PDIP-14	16-ch analog multiplexer/demultiplexer	1.07	.98	.82
792204	MC14067BDW	SOIC-14	16-ch analog multiplexer/demultiplexer	.94	.84	.76
792221	MC14069UBCP	PDIP-14	Hex inverter	*	.256	.215
869494	MC14069UBDG	SOIC-14	Hex inverter	.18	.146	.121
869558	MC14070BCP	PDIP-14	CMOS SSI quad exclusive OR gate	*	.297	.275
792247	MC14070BCPG	PDIP-14	CMOS SSI quad exclusive OR gate	★	Call	Call
792263	MC14071BCPG	PDIP-14	Quad 2-input OR gate	★	Call	Call
869697	MC14073BCP	PDIP-14	Triple 3-input AND gate	*	.333	.299
869751	MC14077BD	SOIC-14	CMOS SSI quad exclusive NOR gate	*	.297	.24
792301	MC14093BCPG	PDIP-14	Quad 2-input NAND schmitt trigger	*	.233	.199
869929	MC14094BCP	PDIP-16	8-stage shift store register w/ 3-st.	★	Call	Call
792360	MC14106BCPG	PDIP-14	Hex schmitt trigger	★	Call	Call
792423	MC14174BCPG	PDIP-16	Hex type D flip-flop	★	Call	Call
870137	MC14175BCP	PDIP-16	Quad type D flip-flop	*	.351	.296
792440	MC14489BPE	DIP-20	Multi-character LED display/lamp drv	3.69	3.40	3.10
792474	MC14511BCPG	PDIP-16	BCD-to-7 seg latch/decoder/driver	.56	.49	.422
870276	MC14511BD	SOIC-16	BCD-to-7 seg latch/decoder/driver	.64	.511	.384
870292	MC14512BCP	PDIP-16	8-ch data selector	★	Call	Call
792511	MC14514BCP	PDIP-24	4-bit transparent latch/4-to-16 line dec	1.69	1.54	1.22
792538	MC14517BCP	PDIP-16	Dual 64-bit static shift register	★	Call	Call
870321	MC14518BCP	PDIP-16	Dual BCD up counter	★	Call	Call

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Part No.	Product No.	Pkg.	Description	* Minimum order 10 pieces		
				1	10	100
870348	MC14520BCP	PDIP-16	Dual binary up counter	★	Call	Call
870364	MC14521BCP	PDIP-16	24-stage frequency counter	★	Call	Call
792554	MC14521BDG	SOIC-16	24-stage frequency counter	.50	.444	.40
870381	MC14526BCP	PDIP-16	Presetable 4-bit down counter	★	Call	Call
792571	MC14528BD	SOIC-16	Dual monostable multivibrator	*	.332	.299
792597	MC14536BDWG	SOIC-16	Programmable timer	+	.75	.61
870495	MC14538BCPG	PDIP-16	Dual prec retrig/reset mono multi	.51	.453	.382
792618	MC14538BDWG	SOIC-16	Dual prec retrig/reset mono multi	.87	.75	.58
870591	MC14543BCP	PDIP-16	BCD-to-7 seg latch/dec./driver for LCD	.52	.453	.386
792642	MC14551BCP	PDIP-16	Quad 2-ch analog multi/demultiplexer	★	Call	Call
947982	MC14553BCPG	DIP-16	3-digit BCD decoder	*	1.60	1.49
870655	MC14555BCP	PDIP-16	Dual binary to 1-of-4 dec/demultiplexer	★	Call	Call
870671	MC14557BCP	PDIP-16	1-to-64 bit variable lgth shift register	1.08	.96	.88
870698	MC1455D	SOIC-8	Monolithic timing circuit	*	.204	.178
792677	MC1455DG	SOIC-8	Monolithic timing circuit	.52	.473	.424
870719	MC14569BCP	PDIP-16	Prog. divide-by-N dual 4-bit binary/BCD cntr	★	Call	Call
792714	MC14572UBCP	PDIP-16	Hex gate	*	.376	.319
792731	MC14572UBCPG	PDIP-16	Hex gate	★	Call	Call
870735	MC14584BCP	PDIP-14	Hex Schmitt trigger	*	.324	.272
792757	MC14584BCPG	PDIP-14	Hex Schmitt trigger	*	.324	.272
870778	MC14584BDG	SOIC-14	Hex Schmitt trigger	*	.223	.188
870794	MC14584BDR2	SOIC-14	Hex Schmitt trigger	★	Call	Call
870815	MC14585BCP	PDIP-16	4-bit magnitude comparator	★	Call	Call
792773	MC14585BCPG	PDIP-16	4-bit magnitude comparator	★	Call	Call

+ With 24-stage binary ripple counter w/ 16-stages selectable by binary code

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## Texas Instruments® 4000 Series

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
893056	CD4002BE	DIP-14	CMOS dual 4-input NOR gate	*	\$ .221	\$ .207
893283	CD4011BE	DIP-14	CMOS NAND gate	*	.221	.207
893443	CD4013BE	DIP-14	CMOS dual D-type flip-flop	*	.221	.207
893611	CD4017BE	DIP-16	CMOS counter/divider	*	.258	.242
817598	CD4017BPW	TSSOP-16	CMOS counter/divider	*	.233	.219
893769	CD4020BE	DIP-16	CMOS ripple carry binary counter/divider	*	.258	.242
893806	CD4021BE	DIP-16	CMOS 8-stage static shift register	*	.258	.242
893911	CD4024BE	DIP-14	CMOS 7-stage ripple carry binary cntr/divider	*	.221	.207
893988	CD4027BE	DIP-16	CMOS dual J-K master slave flip-flop	*	.221	.207
894024	CD4028BE	DIP-16	BCD-to-decimal decoder	*	.245	.23
817838	CD4028BM	SOIC-16	BCD-to-decimal decoder	*	.392	.294
894059	CD4029BE	DIP-16	CMOS presetable up/down counter	*	.27	.253
817862	CD4031BE	DIP-16	CMOS 64-stage static shift register	1.25	1.12	1.04
894171	CD4040BE	DIP-16	CMOS ripple carry binary cntr/divider	*	.223	.209
817897	CD4041UBE	DIP-14	CMOS quad true/compliment buffer	.65	.59	.541
894251	CD4043BE	DIP-16	CMOS quad NOR 3-st R/S latch	*	.199	.186
1238299	CD4049UBDWG4	SOIC-16	CMOS hex buffer/converter	*	.323	.274
894391	CD4051BE	DIP-16	Single 8-ch MUX w/ 3-binary inputs, I-temp	*	.258	.242
818224	CD4056BE	DIP-16	CMOS liquid crystal display driver	*	.378	.355
818304	CD4066BE	DIP-14	CMOS quad bilateral switch	*	.221	.207
894761	CD4069UB	DIP-14	CMOS hex inverter	*	.221	.207
894809	CD4071BE	DIP-14	CMOS quad 2-input or gate	*	.221	.207
894833	CD4072BE	DIP-14	CMOS dual 4-input OR gate	*	.199	.186
818873	CD4093BE	DIP-14	Quad 2-input NAND schmitt trigger	*	.221	.207
895377	CD4511BE	DIP-16	CMOS BCD-to-7 seg. latch decoder/driver	*	.282	.265
819104	CD4521BE	DIP-16	BMOS 24-stage frequency divider	*	.393	.369

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♣ RoHS compliant product   ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 4000 Series

NEW

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
785063	CD4001BCN	DIP-14	Quad 2-input NOR buffered B series gates	*	\$ .363	\$ .318
870372	CD4013BCM	SOIC-14	Dual D-type flip-flop	*	.245	.221
870410	CD4013BCN	DIP-14	Dual D-type flip-flop	*	.353	.318
870583	CD4051BCN	DIP-16	Single 8-ch analog mux/demux	*	.58	.44
870612	CD4053BCM	SOIC-16	Triple 2-ch analog mux/demux	*	.333	.30
870663	CD4060BCN	DIP-16	14-stage ripple carry binary counter	*	.55	.46
870680	CD4066BCM	SOIC-14	Quad bilateral switch	*	.225	.203
870807	CD4093BCN	DIP-14	Quad 2-input NAND schmitt trigger	*	.333	.30
870284	CD40106BCM	SOIC-14	Hex Schmitt trigger	*	.226	.203
785071	CD40106BCN	DIP-14	Hex Schmitt trigger	*	.353	.318
870858	CD4538BCN	DIP-16	Dual precision monostable multivibrator	*	.53	.44



## 4000 Series

NEW

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Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
916844	HEF40106BPN	DIP-14	Hex inverting Schmitt trigger	*	\$ .151	\$ .142
917169	HEF4538BTD	SOIC-16	Dual precision monostable multivibrator	*	.239	.22

## 4000 Series

Part No.	Cross Ref.	Pkg.	Description	* Minimum order 5 pieces		
				1	10	100
12562	CD4001N	DIP-14	Quad 2-input NOR gates	\$ .39	\$ .30	\$ .23
675964	CD4002N	DIP-14	Dual 4-input NOR gates	.41	.336	.179
12597	CD4007N	DIP-14	Dual comp. pair with inverter	.35	.30	.25
12634	CD4011N	DIP-14	Quad 2-input NAND gates	.35	.288	.228
675972	CD4012N	DIP-14	Dual 4-input NAND gates	.34	.295	.179
12677	CD4013N	DIP-14	Dual D flip-flops with set/reset	.41	.34	.25
675981	CD4014N	DIP-16	8-stage static shift register	.28	.265	.17
12706	CD4015N	DIP-16	Dual 4-stage static shift registers	.31	.249	.207
13565	CD4518N	DIP-16	Dual BCD up counters	.32	.30	.276
13581	CD4520N	DIP-16	Dual binary up counters	.34	.27	.21
676422	CD4527N	DIP-16	BCD rate multiplier	.40	.333	.226
13611	CD4528N	DIP-16	Dual monostable multivibrators	1.14	.98	.73
676431	CD4532N	DIP-16	8-bit priority encoder	.39	.299	.169
676449	CD4536N	DIP-16	CMOS Programmable timer	.59	.448	.254
13653	CD4538N	DIP-16	Dual precision monostable multivibrators	.44	.37	.302
13688	CD4541N	DIP-14	Oscillator/programmable timer	.36	.358	.29
676844	CD4541M	SOIC-14	Oscillator/programmable timer	.23	.183	.145
13696	CD4543N	DIP-16	BCD to 7-segment decoder (LCD)	.39	.30	.23
13709	CD4553N	DIP-16	3-digit BCD counter	2.95	2.66	2.39
13768	CD4584N	DIP-14	Hex Schmitt triggers	.39	.35	.29
676457	CD4724N	DIP-16	CMOS 8-bit addressable latch	.32	.298	.196
676465	CD14538N	DIP-16	CMOS dual precision monostable multivib.	.66	.498	.279
676473	CD40102N	DIP-16	8-st. preset. synch. down cntrs (2-decade BCD)	.79	.66	.408
676481	CD40103N	DIP-16	8-st. preset. synch. down cntrs (8-bit binary)	.47	.423	.33
44257	CD40106N	DIP-14	Hex inverters Schmitt trigger (74C14)	.49	.465	.42
676887	CD40106M	SOIC-14	CMOS Hex Schmitt trigger	.28	.241	.176
676490	CD40107N	DIP-8	Dual 2-input NAND buffer/driver	.45	.349	.265
676502	CD40110N	DIP-16	Decade up-down counter	1.23	1.00	.71
676511	CD40174N	DIP-16	HEX D-type flip flops	.43	.324	.244
676529	CD40192N	DIP-16	Presetable up/down counter	.54	.407	.215
676537	CD40193N	DIP-16	Presetable up/down counter	.59	.448	.34
12722	CD4016N	DIP-14	Quad bilateral switches	.28	.24	.18
676545	CD4016M	SOIC-14	Quad bilateral switches	.36	.293	.203
12749	CD4017N	DIP-16	Decade counter/divider	.39	.35	.32
197296	CD4017M	SOIC-16	Decade counter/divider	.36	.31	.233
12773	CD4018N	DIP-16	Presetable divide-by-N counter	.33	.279	.209
675999	CD4019N	DIP-16	Quad AND/OR select gates	.32	.293	.265
12802	CD4020N	DIP-16	14-stage binary/ripple counter	.39	.36	.33
54666	CD4022N	DIP-16	Div. by 8-cntr./driver w/ 8-decoded outputs	.32	.30	.27
12845	CD4023N	DIP-14	Triple 3-input NAND gates	.39	.33	.25
12853	CD4024N	DIP-14	7-stage binary counter	.39	.30	.23

\* 10 pcs. in 4000 series IC cabinet kit, pg 20   \*\* 20 pcs. in 4000 series IC cabinet kit, pg 20

# 4000 & 7400 Series Standard Logic



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

Thousands of additional ICs are now available on our website.

## 4000 Series (Continued)

* Minimum order 10 pieces						
Part No.	Cross Ref.	Pkg.	Description	1	10	100
676748	CD4024M	SOIC-14	7-stage binary counter	\$.20	\$.174	\$.16
676001	CD4025N	DIP-14	Triple 3-input NOR gates	.20	.18	.132
353560	CD4026N	DIP-16	Decade counter/divider	.62	.52	.45
12888	CD4027N	DIP-16	Dual JK master-slave flip-flops	.33	.264	.192
12909	CD4028N	DIP-16	BCD-to-decimal decoder	.40	.266	.244
12925	CD4029N	DIP-16	Presetable up/down counter	.33	.31	.25
676019	CD4030N	DIP-14	Quad exclusive OR gates	.21	.169	.128
12950	CD4040N	DIP-16	12-stage binary/ripple counter	.31	.29	.22
197333	CD4040M	SOIC-16	12-stage binary/ripple counter	.51	.43	.323
676027	CD4041N	DIP-14	Quad true/complement driver	.79	.60	.335
12992	CD4043N	DIP-16	Quad NOR R-S latches tri-state	.30	.249	.186
13004	CD4044N	DIP-16	Quad 3-state NAND R-S latches tri-state	.44	.38	.29
13055	CD4049N	DIP-16	Hex/buffer/converters (inverting)	.35	.288	.25
13098	CD4051N	DIP-16	Single 8-channel multi./demultiplexer	.45	.39	.35
13119	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer	.31	.26	.195
676756	CD4052M	SOIC-16	4-ch analog multi./demultiplexer	.47	.379	.201
13127	CD4053N	DIP-16	Triple 2-channel multi./demultiplexers	.29	.24	.21
676801	CD4053M	SOIC-16	Triple 2-ch analog multi./demultiplexer	.37	.284	.162
676035	CD4054N	DIP-16	4-segment LCD driver	.33	.266	.183
13151	CD4060N	DIP-16	14-stage ripple-carry binary	.41	.33	.25
676810	CD4060M	SOIC-16	14-stg. ripple-carry binary cnt/divider/oscillator	.42	.339	.18
676051	CD4063N	DIP-16	4-bit magnitude counter	.59	.448	.251
13186	CD4066N	DIP-14	Quad bilateral switches	.39	.30	.23
13215	CD4067N	DIP-24	16-channel analog multi./demultiplexer	1.02	.87	.65
676060	CD4068N	DIP-14	8-input NAND/AND gates	.25	.183	.121
13231	CD4069N	DIP-14	Hex inverters (74C04)	.38	.317	.238
13258	CD4070N	DIP-14	Quad exclusive-OR gates (74C86)	.35	.298	.224
13274	CD4071N	DIP-14	Quad 2-input OR gates	.39	.346	.28
676078	CD4072N	DIP-14	Dual 4-input OR gates	.42	\$.344	.154
676086	CD4073N	DIP-14	Triple 3-input AND gates	.40	.379	.196
676406	CD4073M	SOIC-14	Triple 3-input AND gates	.45	.365	.277
676094	CD4075N	DIP-14	Triple 3-input OR gates	.45	.365	.277
676107	CD4077N	DIP-14	Quad exclusive NOR gates	.39	.299	.227
676414	CD4077M	SOIC-14	Quad exclusive NOR gates	.26	.24	.154
676115	CD4078N	DIP-14	8-input NOR/OR gates	.45	.365	.277
13354	CD4081N	DIP-14	Quad 2-input AND gates	.34	.312	.28
676123	CD4082N	DIP-14	Dual 4-input AND gates	.42	.36	.215
676131	CD4085N	DIP-14	Dual 2-wide 2-input AND/OR inverter gates	.58	.397	.326
676140	CD4089N	DIP-16	Binary rate multiplier	.85	.71	.66
13400	CD4093N	DIP-14	Quad 2-input NANDs Schmitt trigger	.35	.30	.228
13426	CD4094N	DIP-16	8-stage shift-and-store bus register	.28	.26	.23
676158	CD4502N	DIP-16	Strobed hex inverter/buffer	*	.16	.13
676166	CD4504N	DIP-16	Hex voltage-level shifter	.54	.49	.374
13485	CD4510N	DIP-16	BCD up/down counter	.39	.30	.23
13493	CD4511N	DIP-16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49
13522	CD4514N	DIP-24	4-bit latch/4-16 line decoder	.94	.79	.64
13549	CD4516N	DIP-16	Binary up/down counter	.53	.398	.302

\*10 pcs. in 4000 series IC cabinet kit, below \*\*20 pcs. in 4000 series IC cabinet kit, below

## 4000 Series CMOS IC Kit

SAVE \$21

Includes:

20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 165 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584  
20 each: CD4001, CD4011, CD4013, CD4049, CD4056

Part No.	Description	Wt. (lbs.)	1	10
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$95.65	\$90.85



4000 & 7400 Series Cabinet Kit Refills available at  
[www.Jameco.com](http://www.Jameco.com)

## 7400 Series

NEW

For more TI 7400 visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
830063	SN7404D	SOIC-14	Hex inverters	\$1.55	\$1.41	\$1.22
910987	SN7406N	DIP-14	Hex inv/buffer/driver w/ open collectr hi-volt output	1.03	.86	.81
911015	SN7407N	DIP-14	Hex buffer/driver w/ open collectr hi-volt output	.87	.79	.74

## 7400 Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48979	7400N	DIP-14	Quad 2-input NAND gates	\$.97	\$.82	\$.66
49007	7401N	DIP-14	Quad 2-input NAND gates (O.C.)	.65	.63	.59
49015	7402N	DIP-14	Quad 2-input NOR gates	.90	.75	.60
49040	7404N	DIP-14	Hex inverters	1.09	.89	.80
49074	7405N	DIP-14	Hex inverters (O.C.)	.69	.54	.405
49091	7406N	DIP-14	Hex inverter buffer/drivers (O.C.)	.68	.60	.53
49120	7407N	DIP-14	Hex buffer/drivers (O.C.)	.59	.53	.47
49146	7408N	DIP-14	Quad 2-input AND gates	1.28	1.15	1.02
49189	7410N	DIP-14	Triple 3-input NAND gates	.53	.48	.348
295777	7411N	DIP-16	Triple 3-input AND gates	1.19	1.08	.97
49402	7413N	DIP-14	Dual 4-input NAND gates Schmitt trigger	1.25	1.12	1.01
49437	7414N	DIP-14	Hex inverters Schmitt trigger	.71	.64	.58
49630	7416N	DIP-14	Hex inverter buffer/drivers (O.C.)	.81	.74	.66
49728	7417N	DIP-14	Hex buffer/drivers (O.C. hi-voltage)	.91	.77	.58
50008	7420N	DIP-14	Dual 4-input NAND gates	.63	.61	.58
50139	7427N	DIP-14	Triple 3-input NOR gates	.68	.58	.435
50227	7430N	DIP-14	8-input NAND gate	.62	.58	.435
50235	7432N	DIP-14	Quad 2-input OR gates	.98	.84	.66
50374	7442N	DIP-16	BCD-to-decimal decoder	1.67	1.42	1.07
50403	7445N	DIP-16	BCD-to-decimal decoder/driver	1.49	1.32	1.14
50420	7447N	DIP-16	BCD-to-7 segment decoder/driver (L.O.)	1.49	1.29	.99
50526	7472N	DIP-14	AND gated JK master/slave flip-flop	1.95	1.67	1.25
50534	7473N	DIP-14	Dual JK flip-flops with clear	1.33	1.13	.84
50551	7474N	DIP-14	Dual D flip-flops	.65	.56	.53
50577	7475N	DIP-16	4-bit bi-stable latch	2.95	2.75	2.49
50593	7476N	DIP-16	Dual JK flip-flops with preset and clear	2.95	2.65	2.39
50631	7483N	DIP-16	4-bit binary full adder	1.86	1.62	1.32
50657	7485N	DIP-16	4-bit magnitude comparator	1.43	1.16	.84
50665	7486N	DIP-14	Quad exclusive-OR gates	1.75	1.59	1.45
50681	7489N	DIP-16	64-bit RAM P 50ns	3.85	3.50	3.28
50690	7490N	DIP-14	Decade counter	1.49	1.27	.95
50737	7492N	DIP-14	Divide-by-12 counter	1.49	1.29	1.07
50745	7493N	DIP-14	4-bit binary counter	1.49	1.34	1.19
50770	7495N	DIP-14	4-bit parallel-access shift reg. (K155N)	1.19	1.04	.69
49234	74107N	DIP-14	Dual JK flip-flop with clear	.57	.484	.363
49322	74121N	DIP-14	Monostable multivibrator	1.25	1.15	1.00
49357	74123N	DIP-16	Dual retriggerable mono multivibrator	1.19	1.14	1.09
49373	74125N	DIP-14	Quad bus buffer tri-state (DM8093N)	1.39	1.32	1.25
49411	74132N	DIP-14	Quad 2-input NAND Schmitt trigger	1.09	.93	.79
49496	74148N	DIP-16	8 to 3 line octal priority encoder	1.24	1.05	.79
49509	74150N	DIP-24	16 to 1 line multiplexer	2.87	2.54	2.34
49525	74151N	DIP-16	8-input multiplexer	.75	.63	.472
49550	74153N	DIP-16	Dual 4/1 data selector/multiplexer	1.01	.86	.65
49568	74154N	DIP-24	4 to 16 line decoder/demultiplexer	2.70	2.34	2.10
49605	74157N	DIP-16	Quad 2/1 data selector	.99	.86	.65

\*10 pcs./\*\*20 pcs. in 7400 series IC cabinet kit, below

## 7400 Series IC Kit

SAVE \$124

Includes:

20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 165 and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474

Part No.	Description	Wt. (lbs.)	1	10
84953	350 pcs. 7400 IC kit	6.2	\$179.94	\$161.94



RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Thousands of additional ICs are now available on our website.

**NEW**

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## 7400 Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
49648	74160N*	DIP-16	Decade counter with asynch clear	\$ .52	\$ .46	\$ .41
49664	74161N	DIP-16	Synchronous 4-bit counter w/ direct clear	.77	.69	.55
49672	74163N	DIP-16	Fully synchronous 4-bit counter	.89	.76	.57
49681	74164N	DIP-14	8-bit serial shift register	.94	.79	.59
49779	74174N*	DIP-16	Hex D-type flip-flop with clear	1.09	.92	.69
49795	74175N*	DIP-16	Quad D-type flip-flop with clear	.94	.80	.60
49841	74181N	DIP-24	Arithmetic logic unit/function generator	3.65	3.32	2.99
49883	74189N	DIP-16	64-bit RAM tri-state (DM8599N)	3.39	2.89	2.17
49904	74191N	DIP-16	Binary up/down counter	2.05	1.73	1.30
49912	74192N	DIP-16	Decade up/down counter with clear	3.69	3.39	3.19
49939	74193N	DIP-16	Binary up/down counter with clear	2.39	2.10	1.92
49955	74194N	DIP-16	4-bit bi-directional shift register	1.75	1.49	1.11

\*10 pcs. in 7400 series IC cabinet kit, pg 20

## 74C Series

**NEW**

For more Fairchild 74C visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
871842	MM74C914N	DIP-14	Hex Schmitt trigger w/ extended input voltage	\$3.89	\$3.41	\$2.84

## TEXAS INSTRUMENTS 74C Series

**NEW**

For more TI 74C visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
834881	SN74C85LV3253PW	TSSOP-14	Dual 1-of-4 FET mux/demux	\$ .86	\$ .65	\$ .49

## 74C Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44222	74C00N	DIP-14	Quad 2-input NAND gate	\$1.15	\$ .91	\$ .68
44257	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106)	.49	.465	.42
44441	74C74N	DIP-14	Dual D flip-flop	1.89	1.53	1.16
44361	74C221N	DIP-16	Dual monostable multivibrator	3.99	3.25	2.43
44396	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state	4.65	3.74	2.93
44409	74C374N	DIP-20	Octal D-type flip-flop tri-st. (INS82C06N)	2.49	2.13	1.59
44564	74C922N	DIP-18	16-key keyboard encoder (INS8245N)	7.05	6.79	6.19
44572	74C923N	DIP-20	20-key keyboard encoder (INS8246N)	7.45	6.32	5.33
44599	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver	12.59	10.71	9.10

## TEXAS INSTRUMENTS 74S Series

**NEW**

For more TI 74S visit [www.Jameco.com](http://www.Jameco.com)



Part No.	Product No.	Pkg.	Description	1	10	100
1052013	SN74S112ANE4	DIP-16	Dual J-K neg. edge trig. flip-flop w/ reset & clear	\$1.79	\$1.58	\$1.37
758111	SN74S140D	SOIC-14	Dual 4-input pos. NAND 50Ω line drivers	2.55	2.24	1.93

## 74S Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
676959	74S00N	DIP-14	Quad 2-input NAND gates	\$ .70	\$ .59	\$ .36
676967	74S04N	DIP-14	Hex Inverter	.70	.59	.361
676975	74S10N	DIP-14	Triple 3-input NAND gates	.75	.64	.39
676983	74S38N	DIP-14	Quad 2-input NAND buffer w/ open collector	1.06	.97	.74
676991	74S74N	DIP-14	Dual positive edge-triggered D-type flip-flop	.81	.69	.417
677003	74S138N	DIP-16	3-8 line decoder/demultiplexer	1.09	.99	.81
48557	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03)	3.99	3.90	3.86
677011	74S240N	DIP-20	Octal 3-state buffer/line driver/line receiver	1.85	1.51	1.16
677020	74S244N	DIP-20	Octal 3-state buffer/line driver/line receiver	1.85	1.51	1.19
48696	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10)	14.35	12.90	11.63
48717	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N)	8.15	7.03	6.04
48805	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N)	3.09	2.95	2.80
52513	74S428N	DIP-28	System contr./bus driver (8228)	3.69	3.19	2.36
48864	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N)	12.95	11.65	10.49



♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**



## Dallas Semiconductor

Part No.	Product No.	Pkg.	Description	1	10	100
114198	DS1210	DIP-8	NV controller chip	\$4.45	\$3.78	\$2.84
114219	DS1213C	DIP-28	Smart socket	20.05	15.27	13.63
697223	DS1216B	DIP-28	Smart watch/RAM (Intelligent socket)	36.59	28.26	24.84
133410	DS1216C	DIP-28	Smart watch/RAM	30.55	25.14	18.59
114331	DS1232	DIP-8	Micromonitor chip	1.85	1.34	1.02
697231	DS1243Y-120	EMOD-28	64k non-volatile SRAM w/ phantom clock	44.95	36.87	28.79
866584	DS275	DIP-8	Line powered RS-232 transceiver chip	3.99	3.83	3.67
780182	DS1231-20+	DIP-8	Power monitor chip	8.09	6.09	5.39
133444	DS1286	DIP-28	Watchdog timekeeper	22.15	16.90	12.40
76646	DS1287	DIP-24	Real time clock chip	8.70	7.38	6.64
176778	DS1302	DIP-8	Trickle charge time keeping	3.19	2.44	1.48
863308	DS1307	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	3.59	2.79	2.43
114382	DS1620	DIP-8	Digital thermometer and thermostat	5.35	4.42	3.39
865709	DS1821	PR-35	Prog. digital thermostat & thermometer	6.15	4.70	4.10
865936	DS18B20	TO-92	Prog. resolution 1-wire digital thermometer	4.45	3.89	3.31
697266	DS2430A	TO-92	1-wire, 256B EEPROM	3.29	2.48	2.21
133452	DS12887	DIP-24	Real time clock chip	8.15	6.93	5.19

♣ Pull = Extra Savings

## MPU Supervisory

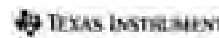
Part No.	Cross Ref.	Pkg.	Description	1	10	100
106219	MAX690CPA	DIP-8	Watchdog timer, 4.4V	\$5.45	\$4.64	\$3.16
106227	MAX691CPE	DIP-16	Watchdog timer, 4.65V	5.75	3.85	3.23
106260	MAX1232CPA	DIP-8	Watchdog timer, 4.65V - 4.75V	2.85	1.85	1.53



## Supervisory & Resets

For more Allegro Supervisory visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
1718778	A1323EUA-T	SIP-3	Ratiometric linear hall effect sensor for hi-temp op	\$1.18	\$1.11	\$1.04
1718727	A1203EUA-T	SIP-3	Continuous-time bipolar switch	1.01	.95	.89



## Supervisory Circuit

For more TI Supervisory visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
762620	TPS3836K33DBVT	SOT-23/5	Nano power supervisory circuit	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

## MAXIM Supervisory

For more Maxim Supervisory visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
819534	MAX690SESA	SOIC-8	3V/3.3V uP sup. circuit (I-temp)	\$7.99	\$7.13	\$6.27
884897	MAX691ACPE	DIP-16	uP supervisory circuit (C-temp)	7.49	6.22	5.10
884993	MAX691EPE	DIP-16	uP supervisory circuit (I-temp)	10.75	8.23	7.41
885013	MAX691EWE	SOIC-16	uP supervisory circuit (I-temp)	11.19	9.05	8.15
885056	MAX692CPA	DIP-8	uP supervisory circuit (C-temp)	6.75	5.22	4.71
885110	MAX703ESA	SOIC-8	uP sup. circuit w/ battery back-up (I-temp)	7.39	5.72	5.15
820463	MAX704CSA	SOIC-8	uP sup. circuit w/ battery back-up (C-temp)	5.69	4.40	3.97
820560	MAX704SESA	SOIC-8	3V/3.3V uP sup. circuit (I-temp)	7.19	6.47	5.82
885152	MAX705MJA	DIP-8	Low-cost uP sup. circuits (-55° to 125°C)	11.35	8.98	7.74
821108	MAX708RESA	SOIC-8	+3V voltage monitor uP sup. circuit (I-temp)	6.39	5.97	5.60
821132	MAX708SESA	SOIC-8	+3V voltage monitor uP sup. circuit (I-temp)	6.39	5.97	5.60
823015	MAX793SCSE	SOIC-16	3V/3.3V adj. uP sup. circuit (C-temp)	7.99	6.18	5.57
823082	MAX793TESE	SOIC-16	3V/3.3V adj. uP sup. circuit (I-temp)	10.49	8.04	7.24
823146	MAX795SCSA	SOIC-8	3V/3.3V adj. uP sup. circuit (C-temp)	7.79	7.26	6.80
823293	MAX807LCPE	DIP-16	uP sup. circuit w/ ±1.5% reset accuracy	6.89	6.19	5.57
823402	MAX813LESA	SOIC-8	Low-cost uP supervisory circuits (4.65V) I-temp	4.19	3.25	2.93
819833	MAX693EWE	SOIC-16	uP supervisory circuit (I-temp)	10.55	9.35	8.15
885620	MAX791CSE	SOIC-16	uP supervisory circuit (C-temp)	8.29	6.43	5.79
885646	MAX791ESE	SOIC-16	uP supervisory circuit (I-temp)	10.95	8.36	7.53
823744	MAX818LCPA	DIP-8	+5V uP supervisory circuit	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

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## TEXAS INSTRUMENTS Power Management Volt. Reference

			* Minimum order 5 pieces		
Part No.	Product No.	Pkg.	Description	1	5 50
908406	REF02AP	DIP-8	+5V precision voltage ref. ....	\$3.59	\$3.33 \$3.14
826259	LM285D-2.5	SOIC-8	Micropower voltage ref. ....	*	.265 .25
826857	LM385BD-1.2	SOIC-8	Micropower voltage ref. ....	*	.193 .182
826873	LM385D-1.2	SOIC-8	Micropower voltage ref. ....	*	.344 .321
826902	LM385D-2.5	SOIC-8	Micropower voltage ref. ....	*	.189 .176
760376	TL431ACD	SOIC-8	Adjustable precision shunt regulators ....	*	.135 .126
822266	TL431ACDBVT4	SOT-23/3	Adjustable precision shunt regulators ....	★	Call Call
760413	TL431ACLP	TO-92	Adjustable precision shunt regulators ....	*	.123 .114
760430	TL431AID	SOIC-8	Adjustable precision shunt regulators ....	*	.123 .114
760456	TL431AIDBVT	SOT-23/5	Adjustable precision shunt regulators ....	★	Call Call
822320	TL431AIP	DIP-8	Adjustable precision shunt regulators ....	*	.246 .229
822354	TL431BCD	SOIC-8	Adjustable precision shunt regulators ....	*	.246 .229
822371	TL431BOD	SOIC-8	Adjustable precision shunt regulators ....	*	.41 .387
760499	TL431CD	SOIC-8	Adjustable precision shunt regulators ....	*	.118 .11
822418	TL431CP	DIP-8	Adjustable precision shunt regulators ....	*	.135 .126
760544	TL431CPK	SOT-89/3	Adjustable precision shunt regulators ....	★	Call Call
760561	TL431ID	SOIC-8	Adjustable precision shunt regulators ....	*	.118 .11
760608	TL431ILP	TO-92	Adjustable precision shunt regulators ....	*	.118 .11
822442	TL431IP	DIP-8	Adjustable precision shunt regulators ....	★	Call Call
826523	TLV431AID	SOIC-8	Adjustable precision shunt regulators ....	*	.472 .367
903120	LT1004CD-1.2	SOIC-8	Micropower integrated voltage ref. ....	*	.338 .318
903154	LT1004ID-1.2	SOIC-8	Micropower integrated voltage ref. ....	1.29	1.20 1.13
903189	LT1009CD	SOIC-8	2.5V integrated ref. circuit ....	.65	.60 .56
822055	TL1431CDE4	SOIC-8	Precision programmable ref. ....	*	.265 .25
760202	TL1431QD	SOIC-8	Precision programmable ref. ....	.79	.72 .68
908650	REF3012AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA ....	★	Call Call
908692	REF3020AIDBZT	SOT-23/3	CMOS voltage ref., 50ppm/OC, 50µA ....	★	Call Call
827067	LM4040C30IDBZT	SOT-23/3	Precision micropower shunt volt ref. ....	★	Call Call
827091	LM4040C41IDBZT	SOT-23/3	Precision micropower shunt volt ref. ....	★	Call Call
827155	LM4041C12IDBZT	SOT-23/3	1.2V precision micropower shunt volt ref. ....	1.32	1.13 .94

★ Please call or visit our website for minimum order quantity and pricing

## Power Management

Part No.	Cross Ref.	Pkg.	Description	1	10 100
792079	MC1403DG	SOIC-8	Low-voltage reference ....	\$ .80	\$ .75 \$ .64
871682	MC34064D-005	SOIC-5	Undervoltage sensing circuit ....	1.27	1.16 1.00

## MAXIM Power Supply Monitor

For more Maxim Power Supply Monitor visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
820316	MAX700ESA	SOIC-8	Power-supply monitor w/ reset (I-temp) ....	★	Call Call
820404	MAX702CSA	SOIC-8	Power-supply monitor w/ reset ....	4.85	3.76 3.38
885304	MAX709LCSA	SOIC-8	Power-supply monitor w/ reset (4.65V) ....	2.55	2.07 1.86

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## National Semiconductor LVDS

For more National LVDS visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
891472	DS90C031BTM	SOIC-16	Quad CMOS diff. line driver ....	\$3.19	\$2.51 \$1.85
833424	DS90C031TMNOPB	SOIC-16	Quad CMOS diff. line driver ....	3.19	2.51 1.85
891552	DS90C032BTM	SOIC-16	Quad CMOS diff. line receiver ....	3.19	2.51 1.84
833441	DS90C032TMNOPB	SOIC-16	Quad CMOS diff. line receiver ....	2.15	1.77 1.50
891632	DS90C401M	SOIC-8	Dual LV diff. signaling driver ....	2.49	1.96 1.44
891667	DS90C402M	SOIC-8	Dual LV diff. signaling receiver ....	2.49	1.96 1.44
891712	DS90C22M-8	SOIC-16	2 x 2 800Mbps crosspoint switch ...	6.39	5.59 5.39
891755	DS90CR285MTD	TSSOP-56	+3.3V rising data strobe 28-bit ch. link, 66MHz	6.39	5.59 5.43
891798	DS90CR286AMTD	TSSOP-56	+3.3V rising data strobe 28-bit ch. link, 66MHz	6.09	5.99 5.74
891835	DS90CR286MTD	TSSOP-56	+3.3V rising data strobe 28-bit ch. link, 66MHz	6.09	5.59 5.14
833467	DS90LV001TMNOPB	SOIC-8	3V buffer ....	2.35	1.82 1.29
892011	DS90LV017ATM	SOIC-8	Single high-speed diff. driver ....	1.85	1.43 1.01



◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

## National Semiconductor LVDS (Continued)

For more National LVDS visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
833491	DS90LV018ATMNOPB	SOIC-8	3V single CMOS diff. line rcv. ....	\$2.09	\$1.62 \$1.15
892096	DS90LV019TM	SOIC-14	3.3V or 5V drv./rcv. ....	2.65	2.08 1.53
892133	DS90LV019TMTCA	TSSOP-14	3.3V or 5V drv./rcv. ....	2.59	2.18 1.53
892176	DS90LV027ATM	SOIC-8	Dual high-spd diff. line drv. ....	1.99	1.52 1.08
892256	DS90LV028ATMNOPB	SOIC-8	3V Dual CMOS diff. line rev. ....	2.15	1.67 1.23
833563	DS90LV031BTMNOPB	SOIC-16	3V quad CMOS diff. line drv. ....	2.75	2.18 1.60
892441	DS90LV032ATMNOPB	SOIC-16	3V quad CMOS diff. line rcv. ....	2.05	1.84 1.67
892475	DS90LV032ATMTCA	TSSOP-16	3V quad CMOS diff. line rcv. ....	2.75	2.18 1.60
892521	DS90LV047ATM	SOIC-16	3V quad CMOS diff. line drv. ....	2.75	2.14 1.57
892627	DS90LV047ATMTCA	TSSOP-16	3V quad CMOS diff. line drv. ....	2.75	2.14 1.57
833598	DS90LV048ATMNOPB	SOIC-16	3V quad CMOS diff. line rcv. ....	2.75	2.14 1.57
892707	DS90LV048ATMTCA	TSSOP-16	3V quad CMOS diff. line rcv. ....	2.75	2.14 1.57
892740	DS90LV049TMTA	TSSOP-16	3V dual line drv. w/ dual line rcv. ....	2.49	1.93 1.37
892782	DS90LV110TMTCA	TSSOP-28	1 to 10 data/clock distributor ....	9.55	8.99 8.07
892820	DS92LV010ATM	SOIC-8	Bus 3.3V/5V single trans. ....	3.19	2.51 1.84

## TEXAS INSTRUMENTS 65LVDS Series

For more TI 65LVDS visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
910371	SN65LVDS1DBVT	SOT-23/5	High-spd diff. line driver/rcv. ....	★	Call Call
829855	SN65LVDS2D	SOIC-8	High-spd diff. line driver/rcv. ....	.99	.90 .85
829986	SN65LVDT33D	SOIC-16	High-spd diff. line 4 rcvs. ....	3.35	3.11 2.93
830004	SN65LVDT34D	SOIC-8	High-spd diff. line 2 rcvs. ....	2.45	2.25 2.11
829791	SN65LVDS049PW	TSSOP-16	Dual diff. drivers/revs. ....	2.15	1.95 1.84
829812	SN65LVDS105D	SOIC-16	4-port TTL-to-LVDS repeater ....	4.75	4.37 4.12
910717	SN65LVDT386DGG	TSSOP-64	Hi-spd diff. line 16 rcvs., C-temp. ....	11.65	10.80 10.17
910522	SN65LVDS387DGG	TSSOP-64	Hi-spd diff. line 16 drvs., I-temp. ....	11.65	10.80 10.17
829943	SN65LVDS388ADBT	SM8-38	Hi-spd diff. line 8 rcvs., I-temp. ....	6.09	5.65 5.33
910565	SN65LVDS389DBT	SM8-38	Hi-spd diff. line 8 drvs., I-temp. ....	6.09	5.65 5.33
910784	SN65LVDT390PW	TSSOP-16	Hi-spd diff. line 4 rcvs., I-temp. ....	3.15	2.92 2.75
910451	SN65LVDS3486D	SOIC-16	Hi-spd diff. line rcv., I-temp. ....	3.15	2.92 2.75
910590	SN65LVDS9637BD	SOIC-8	High-spd diff. line 2 rcvs. ....	2.45	2.25 2.11
910637	SN65LVDS9638DGG	MSOP-8	High-spd diff. line drvs., I-temp. ....	2.45	2.25 2.11

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## TEXAS INSTRUMENTS 65LVD/MLVD Series

For more TI 65LVD/MLVD visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
829687	SN65LVDM050D	SOIC-16	High-spd diff. line drv./rcv. ....	\$4.65	\$4.30 \$4.05
829708	SN65LVDM051D	SOIC-16	High-spd diff. line drv./rcv. ....	4.65	4.30 4.05
829759	SN65LVDM31D	SOIC-16	High-spd diff. line driver ....	3.25	3.02 2.84
910830	SN65MLVD200AD	SOIC-8	Multipoint-LVDS line drv./rcv. ....	3.85	3.55 3.34
830021	SN65MLVD204AD	SOIC-8	Multipoint-LVDS line drv./rcv. ....	3.85	3.55 3.34

## MAXIM Hot Swap Interface

For more Maxim Hot Swap Interface visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
809740	MAX3070EESD	SOIC-14	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX ..	\$3.85	\$3.07 \$2.79
809811	MAX3076EASD	SOIC-14	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX ....	5.19	3.85 3.50
809846	MAX3078EESA	SOIC-8	3.3V, ±15kV ESD fail-safe RS-485/RS-422 TRX ....	3.99	3.72 3.49

## Allegro Display Drivers

**NEW**

For more Allegro Display Drivers visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10 100
1719332	A6800SA-T	DIP-14	DABIC-5 latched sink drivers ....	\$1.39	\$1.12 \$1.02
1719341	A6801SA-T	DIP-22	DABIC-5 latched sink drivers ....	2.05	1.65 1.49
1719383	A6810SLW	SOIC-20	DABIC-IV, 10-bit serial input, latched source driver	1.75	1.58 1.41
1719367	A6810EA	DIP-18	DABIC-IV, 10-bit serial input, latched source driver	1.69	1.55 1.40
1719439	A6821SA-T	DIP-16	DABIC-5, 8-bit serial input latched sink driver ....	2.19	1.76 1.60

## Allegro Motor Control

**NEW**

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Part No.	Product No.	Pkg.	Description	1	10 100
1719130	A3959SLB-T	SOIC-24	DMOS full bridge PWM motor driver ..	\$4.85	\$4.21 \$3.85
1719164	A3979SLP-T	TSSOP-20	Microstepping DMOS driver w/ translator ...	6.49	5.79 5.22

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## Power Drivers

**NEW**

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Part No.	Product No.	Pkg.	Description	1	10	100
1719210	A6275EA	DIP-16	8-bit serial input constant curr. latched LED drv	\$1.41	\$1.22	\$1.17
1719228	A6275ELW	SOIC-16	8-bit serial input constant curr. latched LED drv	1.49	1.31	1.20
1718831	A2557KLB-T	SOIC-16	Quad low-side drv w/ fault protect&sleep mode	2.25	2.00	1.80
1719480	A6841SLW-T	SOIC-18	DABIC-5, 8-bit serial input latched sink drv	2.45	2.21	1.99
1719471	A6841SLW-20-T	SOIC-20	DABIC-5, 8-bit serial input latched sink drv	4.45	2.98	2.56
1762664	UDN2559B	DIP-16	Protected quad power driver	3.89	3.05	2.76
1762656	UDK2559EB	PLCC-28	Protected quad power driver	4.69	3.84	3.77
1762681	UDN2981A-T	DIP-18	8-channel source drivers	1.75	1.39	1.27
1762701	UDN2981W-6-T	SOIC-20	DABIC-5 8-ch source drv w/ overcurr. protection	2.69	2.20	2.18

## MAXIM RS-232 Drivers/Rec.

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Part No.	Product No.	Pkg.	Description	1	10	100
808000	MAX202CSE+	SOIC-16	+5V dual RS-232 trans. w/ 0.1µf ext. cap	\$3.09	\$2.44	\$2.16
882023	MAX202EES+	SOIC-16	+15kV ESD-protect, +5V dual RS-232 trans.	5.05	3.98	3.52
808122	MAX202EWE+	SOIC-16	+5V, dual RS-232 trans. w/ 0.1µf ext. cap	3.09	2.85	2.59
808157	MAX203CPP+	DIP-20	+5V, dual RS-232 trans. w/ 0.1µf ext. cap	6.95	5.49	4.84
882082	MAX203EWP+	SOIC-20	+5V, dual RS-232 trans. w/ 0.1µf ext. cap	7.05	6.39	5.81
808288	MAX208ECNG+	DIP-24	+15kV ESD-protect, +5V RS-232 trans.	8.35	6.50	5.69
882138	MAX208EEAG+	SSOP-24	+15kV ESD-protect, +5V RS-232 trans.	10.75	8.41	7.43
808405	MAX211ECWI+	SOIC-28	+15kV ESD-protect, +5V RS-232 trans. 4 drv/5 rec.	7.75	6.61	5.69
808421	MAX211EEAI+	SSOP-28	+15kV ESD-protect, +5V RS-232 trans. 4 drv/5 rec.	10.79	8.43	7.44
808464	MAX212CAG+	SSOP-24	+3V powered, LP, true RS-232 trans.	6.79	6.19	5.64
808544	MAX214CPI	DIP-28	Prog. DTE/DCE, +5V dual RS-232 trans.	9.59	9.09	8.18
808755	MAX223EWI+	SOIC-28	+5V powered multi chnl RS-232 4 drv/5 rec	9.59	7.31	6.43
882171	MAX232ACPE	DIP-16	+5V multi ch RS-232 drvrs/recvs, C-temp	5.05	4.13	3.76
318959	MAX232CPE	DIP-16	5V, 200kbps, multichannel	2.89	1.77	1.33
882293	MAX232ECPE	DIP-16	+15kV ESD-protected, +5V RS-232 trans.	3.89	3.09	2.73
808907	MAX232EES+	SOIC-16	+15kV ESD-protected, +5V RS-232 trans.	5.05	3.98	3.52
808991	MAX234CPE+	DIP-16	+5V powered multichnl RS-232 drv./rec. 4 drv.	5.49	4.35	3.83
809011	MAX238ENG+	DIP-24	+5V powered multichnl RS-232 quad drv./rec.	★	Call	Call
809037	MAX238EWG+	SOIC-24	+5V multi chnl RS-232 quad drv./rec.	8.45	6.77	5.89
809053	MAX239CNG+	DIP-24	+5V multi chnl RS-232 3 drv./5 rec.	7.05	5.59	4.91
809070	MAX241CWI+	SOIC-28	+5V multi chnl RS-232 4 drv./5 rec.	7.05	5.59	4.91
809125	MAX242CPN+	DIP-18	+5V multi chnl dual RS-232 drv./rec.	4.75	3.61	3.17
882517	MAX242EWN+	SOIC-18	+5V multi chnl dual RS-232 drv./rec.	5.01	4.17	3.79
809248	MAX250EPD+	DIP-14	+5V isolated dual RS-232 drv./rec.	8.59	7.83	7.12
809281	MAX251EPD+	DIP-14	+5V isolated dual RS-232 drv./rec.	10.35	8.10	7.12
810361	MAX3093EES+	SOIC-16	+15kV ESD-protect, 5V LP quad RS-422/RS-485 rec.	3.39	3.07	2.79
807744	MAX3209ECUU+	TSSOP-38	+15kV ESD protect, 12V dual RS-232 serial w/ LP standby	5.55	4.64	3.72
807859	MAX3223CAP+	SSOP-20	1µA cur., 120kbps, dual RS-232 trans. w/ autoshtdn	4.45	3.72	3.28
807912	MAX3223EAP+	SSOP-20	1µA cur., 120kbps, dual RS-232 trans. w/ autoshtdn	6.40	5.33	4.68
807971	MAX3224CAP+	SSOP-20	1µA cur., 250kbps, dual RS-232 trans. w/ autoshtdn	3.75	3.10	2.73
808018	MAX3224EAP+	SSOP-20	1µA cur., 250kbps, dual RS-232 trans. w/ autoshtdn	5.09	4.19	3.88
808106	MAX3224EUP+	TSSOP-20	1µA cur., 250kbps, dual RS-232 trans. w/ autoshtdn	5.69	5.01	4.33
808131	MAX3225CAP+	SSOP-20	1µA cur., 1Mbps, dual RS-232 trans. w/ autoshtdn	3.99	3.20	2.73
1225421	MAX3235ECCP+G36	DIP-20	+15kV ESD-protect, 3.3V/5V dual trans.	5.85	5.55	5.27
883528	MAX3238EAI+	SSOP-28	10mA, 250kbps, RS-232 trans. w/ autoshtdn	10.15	7.23	7.00
808456	MAX3241CAI+	SSOP-28	LP, 120kbps, RS-232 trans. 4.0µf ext. cap. (31RX/5RX)	7.05	5.57	4.89

★ Please call or visit our website for minimum order quantity and pricing





## RS-232 Drivers/Rec.

For more TI RS-232  
visit [www.Jameco.com](http://www.Jameco.com)

* Minimum order 5 pieces				1	5	50
Part No.	Product No.	Pkg.	Description	1	5	50
827569	MAX202CD	SOIC-16	5V dual RS-232 line drv/rcv w/ ±15kV ESD	\$ .79	\$ .72	\$ .68
827593	MAX202CDE4	SOIC-16	5V dual RS-232 line drv/rcv w/ ±15kV ESD	.79	.72	.68
827631	MAX2021DW	SOIC-16	5V dual RS-232 line drv/rcv w/ ±15kV ESD	.79	.72	.68
827657	MAX208CDBG4	SSOP-24	5V multichannel RS-232 line drv/rcv w/ ±15kV ESD	1.55	1.45	1.36
698576	MAX232N	DIP-16	Dual EIA-232 drivers/receivers	.89	.72	.55
698550	MAX232D	SOIC-16	Dual EIA-232 drivers/receivers	★	.339	.329
698568	MAX232DW	SOIC-16	Dual EIA-232 drivers/receivers	.87	.72	.58
903242	MAX2321DW	SOIC-16	Dual EIA-232 drivers/receivers	.55	.483	.455
903277	MAX2321N	DIP-16	Dual EIA-232 drivers/receivers	.55	.483	.455
829337	SN65C1406D	SOIC-16	Triple low-power drivers/receivers	2.59	2.41	2.27
758962	SN75C1406DW	SOIC-16	Triple low-power drivers/receivers	.75	.70	.66

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## RS-232 Drivers/Receivers (Cont.)

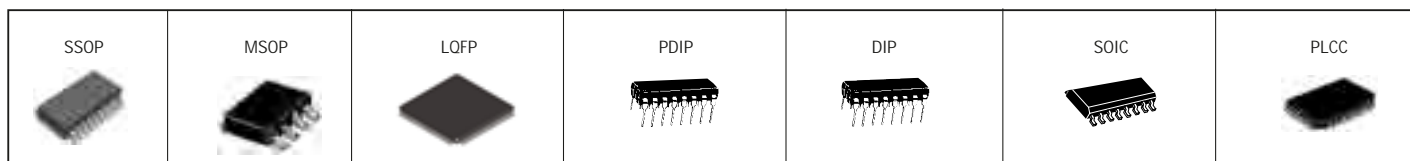
* Minimum order 5 pieces				1	5	50
Part No.	Product No.	Pkg.	Description	1	5	50
828043	MC1488N	DIP-14	Quad line drivers	\$.54	\$.431	\$.323
903525	MC1489AN	DIP-14	Quad line receivers	★	.181	.17
903541	MC1489N	DIP-14	Quad line receivers	★	.181	.17
698584	MAX3221CDB	SSOP-16	3-5.5V sngl RS-232 line drv/rcv w/ ±15kV ESD	1.31	1.09	1.02
698592	MAX3221CPW	TSSOP-16	3-5.5V sngl RS-232 line drv/rcv w/ ±15kV ESD	1.28	1.15	1.03
903306	MAX3221IDB	SSOP-16	3V-5.5V sngl ch RS-232 line drv/rcv w/ ±15kV ESD	1.29	1.20	1.13
698605	MAX3221IPW	TSSOP-16	3-5.5V sngl RS-232 line drv/rcv w/ ±15kV ESD	1.39	1.18	.89
827745	MAX3222IDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.35	2.17	2.04
827681	MAX3222CDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.25	2.05	1.93
827711	MAX3222CDW	SOIC-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.25	2.05	1.93
903331	MAX3222CPW	TSSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.25	2.05	1.93
903365	MAX3223CPW	TSSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	1.85	1.69	1.59
829353	SN65C3223DW	SOIC-20	3V-5.5V multi ch RS-232 compatible line drv/rcv	2.09	1.93	1.82
829370	SN65C3223DWG4	SOIC-20	3V-5.5V multi ch RS-232 compatible line drv/rcv	2.09	1.93	1.82
827833	MAX323ECDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.09	1.93	1.82
827868	MAX3232EIDB	SSOP-20	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.49	2.29	2.16
698613	MAX3232CD	SOIC-16	3-5.5V multich RS-232 line drv/rcv w/ ±15kV ESD	1.46	1.41	1.18
903390	MAX3232CDB	SSOP-16	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	1.55	1.45	1.36
698621	MAX3232CPW	TSSOP-16	3-5.5V multich RS-232 line drv/rcv w/ ±15kV ESD	1.39	1.29	1.15
698630	MAX3232IPW	TSSOP-16	3-5.5V multich RS-232 line drv/rcv w/ ±15kV ESD	1.59	1.40	1.14
909601	SN65C3232PW	TSSOP-16	3V-5.5V multi ch RS-232 compatible line drv/rcv	1.85	1.69	1.59
827892	MAX3238CDB	SSOP-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	1.95	1.81	1.70
827930	MAX3238IDB	SSOP-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	2.25	2.05	1.93
698648	MAX3243CDB	SSOP-28	3V-5.5V multich RS-232 line drv/rcv w/ ±15kV ESD(HBM)	1.28	1.24	.80
827999	MAX3243IDW	SOIC-28	3V-5.5V multi ch RS-232 line drv/rcv w/ ±15kV ESD	1.55	1.45	1.36
698656	MAX3243IPW	TSSOP-28	3-5.5V multich RS-232 line drv/rcv w/ ±15kV ESD(HBM)	1.39	1.30	1.16
820842	SN75C3243PW	TSSOP-28	3V-5.5V multich RS-232 line drv/rcv	2.35	2.17	2.04
820877	SN75C3243PWG4	TSSOP-28	3V-5.5V multich RS-232 line drv/rcv	2.35	2.17	2.04
820287	SN75107AN	DIP-14	+5V, Dual line receivers	.75	.67	.63
758153	SN75107BN	DIP-14	Dual line receivers	★	.241	.227
820308	SN75107BDE4	SOIC-14	+5V, Dual line receivers	★	.241	.227
820341	SN75110AN	DIP-14	+5V, Dual line drivers	★	.29	.273
820367	SN75114D	SOIC-16	Dual differential line drivers	2.49	2.29	2.16
820391	SN75118N	DIP-16	Differential line receivers	4.69	4.35	4.09
820412	SN75121N	DIP-16	Dual line drivers	2.35	2.17	2.04
820447	SN75150P	DIP-8	+12V, Dual line drivers	★	.435	.409
820471	SN75154N	DIP-16	Quad line receiver (5V, alternate 12V)	★	.435	.409
820501	SN75154NE4	DIP-16	Quad line receiver (5V, alternate 12V)	★	.442	.413
758170	SN75155D	SOIC-8	+12V, Line driver & receiver	.75	.67	.63
758196	SN75155P	DIP-8	+12V, Line driver & receiver	.75	.67	.63
758217	SN75158P	DIP-8	Dual differential line driver	2.85	2.65	2.50
758233	SN75160BDW	SOIC-20	Gen. purpose octal interface bus trans.	1.25	1.16	1.09
758250	SN75160BN	DIP-20	Gen. purpose octal interface bus trans.	1.25	1.16	1.09
820551	SN75172DW	SOIC-20	Quad differential line driver	1.89	1.76	1.66
758268	SN75173D	SOIC-16	Quad differential line receivers w/ 3-st	1.15	1.03	.97
758276	SN75173N	DIP-16	Quad differential line receivers w/ 3-st	1.15	1.03	.97
758292	SN75175D	SOIC-16	Quad differential line receivers w/ 3-st	.55	.483	.455
758321	SN75175N	DIP-16	Quad differential line receivers w/ 3-st	.55	.483	.455
758348	SN75176AD	SOIC-8	Differential bus transceivers	★	.29	.273
758364	SN75176AP	DIP-8	Differential bus transceivers	★	.29	.273
758381	SN75176BD	SOIC-8	Differential bus transceivers	★	.29	.273
820615	SN75176BDG4	SOIC-8	Differential bus transceivers	★	Call	Call
758401	SN75188D	SOIC-14	+9V, Quad line drivers	★	.27	.252
758428	SN75188N	DIP-14	+9V, Quad line drivers	★	.27	.252
758997	SN75C188N	DIP-14	+12V, Quad low-power line drivers	★	.319	.298
820674	SN75189AD	SOIC-14	Quad line receivers	★	.27	.252
759017	SN75C189AD	SOIC-14	Quad low-power line receivers	★	.319	.298
758461	SN75189AN	DIP-14	Quad line receivers	★	.27	.252
759068	SN75C189AN	DIP-14	Quad low-power line receivers	★	.319	.298
758487	SN75189D	SOIC-14	Quad line receivers	★	.27	.252
758508	SN75189N	DIP-14	Quad line receivers	★	.27	.252
758946	SN75C1154DW	SOIC-20	Quad low-power drivers/receivers	1.09	1.01	.95
820586	SN751730D	SOIC-16	Triple line driver/receiver	2.35	2.17	2.04

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# RS-232 & RS-422/423/485 Drivers/Receivers

Color Code Legend			
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## DALLAS RS-232 Transceiver Chip

Part No.	Product No.	Pkg.	Description	1	10	100
866584	DS275	DIP-8	Line powered RS-232 trans. chip	\$3.99	\$3.83	\$3.67

## Interil RS-232 Drivers/Receivers

Part No.	Product No.	Pkg.	Description	1	10	50
875384	HIN232ACP	DIP-16	5V hi spd RS-232 transmitter/receiver	\$.95	\$.88	\$.82
875448	HIN232CP	DIP-16	5V hi spd RS-232 transmitter/receiver	\$.95	.459	.43

## ON Semiconductor RS-232 Receivers

Part No.	Product No.	Pkg.	Description	1	10	50
870882	MC1489AP	DIP-14	Quad line EIA-232D receivers	\$.36	\$.332	\$.301
870920	MC1489P	DIP-14	Quad line EIA-232D receivers	.33	.314	.274

## RS-232 Drivers/Receivers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
142535	HIN202CP	DIP-16	5V, 120kpbs, w/ 0.1µF ext. caps	\$2.65	\$2.10	\$1.57
244232	MAX202CSE	SOIC-16	5V, 120kpbs, w/ 0.1µF ext. caps	1.55	1.25	.94
244241	MAX202EPE	DIP-16	5V, 120kpbs, w/ 0.1µF ext. caps	5.79	5.08	4.83
244259	MAX202ESE	SOIC-16	5V, 120kpbs, w/ 0.1µF ext. caps	1.29	1.10	.82
24811	MAX232CPE	DIP-16	5V, 200kpbs, multichannel	2.59	2.07	1.45
106147	MAX232CWE	SOIC-16	5V, 120kpbs, multichannel	2.65	2.09	1.36
256401	MAX232DR	SOIC-16	5V, 120kpbs, dual driver/receiver	.74	.63	.51
106155	MAX232EPE	DIP-16	5V, 120kpbs, multichannel	3.59	2.66	2.27
106163	MAX233CPP	DIP-20	5V, 120kpbs, multichannel	6.19	4.99	4.66
106171	MAX235CPG	DIP-24	5V, 120kpbs, multichannel	13.39	10.62	7.15
106180	MAX238CNG	DIP-24	5V, 120kpbs, multichannel	6.29	4.79	3.28
23157	DS1488N	DIP-14	15V, quad line driver	.35	.299	.202
16361	DS14C88N	DIP-14	5-12V, quad line driver	.78	.70	.66
23181	DS1489N	DIP-14	5V, quad line receiver	.23	.196	.147
16379	DS14C89N	DIP-14	5V, quad line receiver	1.00	.73	.55
252128	MAX3221CAE	SSOP-16	3-5.5V, 120kpbs, auto shutdown	2.46	2.32	2.22
276859	MAX3232CDR	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	1.25	1.15	1.03
276867	MAX3232CSE	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	3.39	2.89	2.35
235301	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/receiver	2.59	1.95	1.69
23181	SN75189N	DIP-14	5V, quad line receiver	.23	.196	.147
25099	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/receiver	1.95	1.75	1.59

\*10 pcs. in Linear series IC cabinet kit, pg 34

## National Semiconductor RS-422/485 Drvr/Rec.

Part No.	Product No.	Pkg.	Description	1	10	100
832018	DS14185WM	SOIC-20	EIA/TIA-232 3 x 5 drv./rec.	\$1.53	\$1.14	\$.95
832042	DS1487N/NOPB	DIP-8	LP RS-485 1/4 unit load multipoint trans.	2.22	1.67	1.39
832077	DS14C232M/NOPB	SOIC-16	LP +5V powered TIA/EIA-232 dual drv./rec.	3.35	2.50	1.87
889399	DS14C232TM	SOIC-16	LP +5V powered TIA/EIA-232 dual drv./rec.	2.89	2.71	2.07
889436	DS14C335MSA	SOIC-28	+3.3V supply TIA/EIA-232 3 x 5 drv./rec.	7.85	6.22	4.98
832851	DS3691M/NOPB	SOIC-16	RS-422/RS-423 line drv. w/ 3-st. outputs	1.59	1.19	.99
832886	DS3691N/NOPB	DIP-16	RS-422/RS-423 line drv. w/ 3-st. outputs	1.35	1.10	.94
832915	DS3695AM/NOPB	SOIC-8	Multipoint RS-485/RS-422 trans.	1.42	1.05	.87
891026	DS3695N/NOPB	DIP-8	Multipoint RS-485/RS-422 trans.	1.07	.81	.75
832931	DS3696N/NOPB	DIP-8	Multipoint RS-485/RS-422 trans./rec.	2.45	1.81	1.35
891069	DS36C278TM	SOIC-8	LP multipoint EIA-RS-485 trans.	2.69	2.03	1.51
832966	DS36C278TN	DIP-8	LP multipoint EIA-RS-485 trans.	1.26	1.23	1.21
833029	DS485M/NOPB	SOIC-8	LP RS-485/RS-422 multipoint trans.	2.12	1.65	1.37
833053	DS485TM	SOIC-8	LP RS-485/RS-422 multipoint trans.	2.39	1.76	1.37
833088	DS75176BM/NOPB	SOIC-8	Multipoint RS-485/RS-422 trans.	.78	.71	.65

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product    Ⓢ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 1.

## National Semiconductor RS-422/485 Drivers/Receivers (Cont.)

Part No.	Product No.	Pkg.	Description	1	10	100
891149	DS75176BN	DIP-8	Multipoint RS-485/RS-422 trans.	\$1.65	\$1.20	\$.88
833176	DS75176BTN	DIP-8	Multipoint RS-485/RS-422 trans.	1.65	1.20	.88
299671	DS8921N	DIP-8	RS-422 diff line driver/rec. pair, 5V	.91	.79	.60
833299	DS8922AM/NOPB	SOIC-16	3-st. RS-422 dual diff. line drv./rec. pair	1.73	1.30	1.08
833328	DS8922M	SOIC-16	3-st. RS-422 dual diff. line drv./rec. pair	1.95	1.44	1.08
833344	DS8923AM/NOPB	SOIC-16	3-st. RS-422 dual diff. line drv./rec. pair	1.13	.94	.80
833361	DS8923AN/NOPB	DIP-16	3-st. RS-422 dual diff. line drv./rec. pair	2.13	1.58	1.31
892862	DS92LV1212AMSA	SSOP-28	16-40MHz 10-bit bus LVDS clock deserial w/ recov	7.99	7.49	7.37
892985	DS92LV1224TMSA	SSOP-28	30-66MHz 10-bit bus LVDS deserializer	7.79	7.59	7.37
833627	DS96174CN/NOPB	DIP-16	RS-485/RS-422 quad diff. line drivers	3.26	2.51	2.09
235408	DS96176CN	DIP-8	RS-485/422 diff bus driver, 5V	1.86	1.72	1.54
833651	DS96176CN/NOPB	DIP-8	RS-485/RS-422 diff. bus transceiver	1.52	1.26	1.15
833715	DS9638CM	SOIC-8	RS-422 dual high-speed diff. line drv.	1.55	1.12	.82

## MAXIM RS-422/485 Transceiver

Part No.	Product No.	Pkg.	Description	1	10	100
311837	MAX1480BEPI	DIP-28	RS-485/422 data interface, 5V	\$28.75	\$24.44	\$20.17

## RS-422/485 Drivers/Receivers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
299807	LTC485CN	DIP-8	RS-485 LP transceiver, 5V	\$1.35	\$1.17	\$.91
244195	MAX1487CPA	DIP-8	RS-485/422 LP transceiver, 12V	2.25	1.45	1.22
39571	AM26LS30	DIP-16	RS-422/423 line driver, 5V	2.39	2.05	1.76
39589	AM26LS31CN	DIP-16	RS-422 quad diff line driver, 5V	.62	.52	.42
25232	MC3486P	DIP-16	RS-422/423 quad diff line receiver, 5V	.62	.527	.395
25259	MC3487P	DIP-16	RS-422/423 quad line driver, 5V	.72	.61	.49
50956	SN75175N	DIP-16	RS-422/423 quad diff line rec, 5V	.72	.56	.45
50964	SN75176BN	DIP-8	RS-422 diff line bus transceiver, 5V	.65	.55	.45

## TEXAS INSTRUMENTS RS-422/423/485

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\* Minimum order 5 pieces

Part No.	Product No.	Pkg.	Description	1	5	50
817029	AM26S10CN	DIP-16	Quad bus transceivers	\$1.15	\$1.06	\$1.00
892336	AM26C31CD	SOIC-16	Quad differential line driver	.55	.471	.444
892379	AM26C31ID	SOIC-16	Quad differential line driver (I-temp)	.55	.495	.466
816940	AM26C31IN	DIP-16	Quad differential line driver (I-temp)	.59	.543	.512
892416	AM26C31QD	SOIC-16	Quad differential line driver	3.45	3.16	2.98
892459	AM26C32CD	SOIC-16	Quad differential line receiver	.55	.507	.478
816974	AM26C32CN	DIP-16	Quad differential line receiver	.59	.531	.50
892491	AM26C32ID	SOIC-16	Quad differential line receiver (I-temp)	.55	.495	.466
892539	AM26C32IN	DIP-16	Quad differential line receiver (I-temp)	.59	.543	.512
892571	AM26C32QD	SOIC-16	Quad differential line receiver	2.85	2.31	2.26
892601	AM26LS31CD	SOIC-16	Quad differential line driver	* .41	.387	
892643	AM26LS32ACD	SOIC-16	Quad differential line receivers	* .41	.387	
892686	AM26LS33ACD	SOIC-16	Quad differential line receivers	* .41	.387	
892723	AM26LS33ACN	DIP-16	Quad differential line receivers	* .41	.387	
816991	AM26LV32JNS	SOIC-16	Low-volt high-speed quad diff. line rec. (I-temp)	1.05	.96	.91
903605	MC3487N	DIP-16	Quad differential line driver	* .362	.341	
909441	SN65176BD	SOIC-8	Differential bus transceivers	* .362	.341	
909741	SN65HVD10D	SOIC-8	3.3V RS-485 transceivers	4.59	4.25	4.00
909783	SN65HVD11D	SOIC-8	3.3V RS-485 transceivers	4.45	4.13	3.89
909821	SN65HVD12D	SOIC-8	3.3V RS-485 transceivers	4.35	4.01	3.77
909863	SN65HVD20D	SOIC-8	Ext. common-mode RS-485 trans	4.29	3.98	3.75
909901	SN65HVD231D	SOIC-8	3.3V CAN transceivers	3.55	3.26	3.07
909943	SN65HVD232D	SOIC-8	3.3V CAN transceivers	3.39	3.14	2.96
909986	SN65HVD233D	SOIC-8	3.3V CAN transceivers	3.89	3.62	3.41

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## Texas Instruments RS-422/423/485 (Cont.)

Part No.	Product No.	Pkg.	Description	* Minimum order 5 pieces		
				1	5	50
910012	SN65HVD24D	SOIC-8	Ext. common-mode RS-485 trans .....	\$4.69	\$4.35	\$4.09
829441	SN65LBC172ADW	SOIC-20	Quad RS-485 differential line driver ...	5.05	4.68	4.41
829468	SN65LBC173AN	DIP-16	Quad RS-485 differential line rec .....	3.15	2.92	2.75
829484	SN65LBC174ADW	SOIC-20	Quad RS-485 differential line driver ..	5.25	4.88	4.59
829505	SN65LBC174DW	SOIC-20	Quad low-power differential line driver ..	4.05	3.72	3.50
829521	SN65LBC174N	DIP-16	Quad low-power differential line driver ..	4.05	3.72	3.50
829548	SN65LBC175AD	SOIC-16	Quad RS-485 differential line rec .....	2.95	2.73	2.57
829564	SN65LBC175D	SOIC-16	Quad low-power differential line rec ..	2.29	2.12	2.00
829581	SN65LBC175N	DIP-16	Quad low-power differential line rec ..	2.29	2.12	2.00
829601	SN65LBC176P	DIP-8	Differential bus transceiver .....	1.89	1.76	1.66
829628	SN65LBC176QD	SOIC-8	Differential bus transceiver .....	2.05	1.86	1.75
829644	SN65LBC179AD	SOIC-8	Low-power diff. line driver/receiver ...	2.29	2.12	2.00
910143	SN65LBC180AD	SOIC-14	Low-power diff. line driver/receiver ...	2.85	2.61	2.45
829661	SN65LBC182D	SOIC-8	Differential bus transceiver .....	2.19	2.03	1.91
910186	SN65LBC184D	SOIC-8	Diff. trans. w/ transient volt suppression .....	3.39	3.14	2.96
759092	SN75HVD10D	SOIC-8	3.3V RS-485 transceivers .....	2.59	2.53	2.47
759113	SN75HVD12D	SOIC-8	3.3V RS-485 transceivers .....	3.45	3.21	3.02
820287	SN75107AN	DIP-14	Dual line receiver .....	.75	.67	.63
820308	SN75107BDE4	SOIC-14	Dual line receiver .....	*	.241	.227
758153	SN75107BN	DIP-14	Dual line receiver .....	*	.241	.227
820341	SN75110AN	DIP-14	Dual line driver .....	*	.29	.273
820367	SN75114D	SOIC-16	Quad differential line driver .....	2.49	2.29	2.16
820391	SN75118N	DIP-16	Differential line transceiver .....	4.69	4.35	4.09
820412	SN75121N	DIP-16	Dual line driver .....	2.35	2.17	2.04
758217	SN75158P	DIP-8	Dual differential line driver .....	2.85	2.65	2.50
758233	SN75160BDW	SOIC-20	Octal general purpose interface bus trans .....	1.25	1.16	1.09
758250	SN75160BN	DIP-20	Octal general purpose interface bus trans .....	1.25	1.16	1.09
820922	SN75LBC172DW	SOIC-20	Quad low-power differential line driver ..	3.45	3.21	3.02
820551	SN75172DW	SOIC-20	Quad differential line driver .....	1.89	1.76	1.66
820586	SN751730D	SOIC-16	Triple line driver/receiver .....	2.35	2.17	2.04
758268	SN75173D	SOIC-16	Quad differential line receiver .....	1.15	1.03	.97
758276	SN75173N	DIP-16	Quad differential line receiver .....	1.15	1.03	.97
820981	SN75LBC174ADW	SOIC-20	Quad RS-485 differential line driver ..	4.95	4.56	4.30
758292	SN75175D	SOIC-16	Quad differential line receiver .....	.55	.483	.455
758321	SN75175N	DIP-16	Quad differential line receiver .....	.55	.483	.455
758348	SN75176AD	SOIC-8	Differential bus transceiver .....	*	.29	.273
758364	SN75176AP	DIP-8	Differential bus transceiver .....	*	.29	.273
758381	SN75176BD	SOIC-8	Differential bus transceiver .....	*	.29	.273
820615	SN75176BDC4	SOIC-8	Differential bus transceiver .....	*	Call	Call
821028	SN75LBC179P	DIP-8	Low-power diff. line driver/receiver ...	1.55	1.45	1.36
821052	SN75LBC182D	SOIC-8	Differential bus transceiver .....	2.05	1.86	1.75
759130	SN75LBC184D	SOIC-8	Diff. trans.w/ transient volt suppression .....	3.15	2.90	2.73
820893	SN75HVD3082EDGK	MSOP-8	Low-power RS-485 transceiver .....	2.59	2.41	2.27
764385	UA9637ACP	DIP-8	Dual differential line receiver .....	.74	.62	.50
764406	UA9638CP	DIP-8	Dual high-speed differential line driver ...	*	.295	.275
830792	UA9639CP	DIP-8	Dual high-speed line receiver .....	.79	.72	.68

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## Atmel Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
845476	AT43301-SC	SOIC-24	1UP/4DOWN stream USB hub controller ..	\$2.09	\$1.95	\$1.83
763260	AT43USB326-AU	LQFP-48	Multimedia USB kbrd cont w/ embedded hub	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

## MAXIM Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
804869	ICM7212AMIPL	DIP-40	4-digit display decoder/driver, I-temp	\$5.35	\$4.11	\$3.74
312160	MAX7219CNG	DIP-24	5V, 8 digit LCD driver .....	8.95	6.95	4.65

## SHARP Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
1623859	LZ9FC23	QFP-48	Driver IC for 270/320/410/470k B/W CCD	\$6.41	\$4.73	\$4.31

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product
 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.
 [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

# RS-422/423/485 & Interface Series

Lower \$\$\$

For more National Semi Interface  
visit [www.Jameco.com](http://www.Jameco.com)

## National Semiconductor Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
832106	DS14C88N/NOBP	DIP-14	Quad CMOS line driver .....	\$1.25	\$1.13	\$1.03
832165	DS14C89AN/NOBP	DIP-14	Quad CMOS line receiver .....	1.25	1.12	1.03
832288	DS26C31TM/NOBP	SOIC-16	CMOS quad 3-st. diff. line driver .....	.85	.70	.59
832317	DS26C31TN/NOBP	DIP-16	CMOS quad 3-st. diff. line driver .....	2.55	1.87	1.37
889962	DS26C32ATM/NOBP	SOIC-16	Quad diff. line receiver .....	2.05	1.53	1.11
832341	DS26C32ATM/NOBP	DIP-16	Quad differential line receiver .....	1.49	1.19	1.01
832376	DS26LS31CM/NOBP	SOIC-16	Quad high-speed diff. line driver .....	.79	.66	.57
832405	DS26LS31CN/NOBP	DIP-16	Quad high-speed diff. line driver .....	1.09	.92	.78
832448	DS26LS32ACM/NOBP	SOIC-16	Quad differential line receivers .....	1.53	1.12	.93
832472	DS26LS32ACN/NOBP	DIP-16	Quad differential line receivers .....	2.13	1.55	1.29
832510	DS26LS32CM/NOBP	SOIC-16	Quad differential line receivers .....	1.49	1.09	.80
832536	DS26LS32CN/NOBP	DIP-16	Quad differential line receivers .....	2.00	1.46	1.21
890218	DS26LV31TM/NOBP	SOIC-16	3V enhanced CMOS quad diff. line drv ..	1.85	1.37	1.00
832561	DS26LV32ATM/NOBP	SOIC-16	3V enhanced CMOS quad diff. line rcv ..	1.85	1.36	1.02
890349	DS3486M/NOBP	SOIC-16	Quad RS-422, RS-423 line receiver .....	.65	.56	.47
832595	DS3486N/NOBP	DIP-16	Quad RS-422, RS-423 line receiver .....	.99	.90	.83
832624	DS3487M/NOBP	SOIC-16	Quad 3-st. line driver .....	1.09	.93	.80
832659	DS3487TN/NOBP	DIP-16	Quad 3-st. line driver .....	1.23	1.09	.84
832712	DS34C86TM/NOBP	DIP-16	Quad CMOS diff. line receiver .....	2.18	1.60	1.33
832747	DS34C87TM/NOBP	SOIC-16	CMOS quad 3-st. diff line driver .....	.92	.84	.66
832763	DS34C87TN/NOBP	DIP-16	CMOS quad 3-st. diff. line driver .....	1.00	.83	.70
890710	DS34LV86TM/NOBP	SOIC-16	3V enhanced CMOS quad diff. line rcv ..	2.49	1.85	1.43
890752	DS34LV87TM	SOIC-16	Enhanced CMOS quad diff. line drv .....	2.49	1.85	1.43
833205	DS89J12AM/NOBP	SOIC-8	Diff. line driver & receiver pair .....	1.62	1.35	1.27
833230	DS89J12ATM/NOBP	SOIC-8	Diff. line driver & receiver pair .....	★	Call	Call
833264	DS89J12N/NOBP	DIP-8	Diff. line driver & receiver pair .....	.91	.83	.64
833395	DS89C21TM/NOBP	SOIC-8	Diff. CMOS line drv. & rcv. pair .....	1.55	1.17	.85
833686	DS9637ACM/NOBP	SOIC-8	Dual diff. line receiver .....	1.36	.99	.82

★ Please call or visit our website for minimum order quantity and pricing

## ON Semiconductor® Interface Series

Part No.	Product No.	Pkg.	Description	1	10	100
792386	MC1413BPG	PDIP-16	Hi-volt, hi-cur dar transistor arrays ...	★	Call	Call
870065	MC1413D	SOIC-16	Hi-volt, hi-cur dar transistor arrays .....	.62	.506	.384
792407	MC1413PG	PDIP-16	Hi-volt, hi-cur dar transistor arrays .....	.86	.81	.77

★ Please call or visit our website for minimum order quantity and pricing

## Interface Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
243379	MM5453N	DIP-40	3-10V, LCD driver .....	\$3.85	\$3.55	\$3.24
314691	ICL7136CPL	DIP-40	15V, 3 1/2 digit LCD driver .....	4.38	3.84	3.48
313322	ICM7228AIP	DIP-28	5V, 8 digit LCD driver .....	3.95	3.55	3.25
241824	MC14489BP	DIP-20	5V, 7-segment LED display driver .....	3.89	3.26	3.10
277940	SN75179BP	DIP-8	5V, diff line driver/receiver .....	.79	.65	.59
51027	SN75451AN	DIP-8	7V, dual peripheral AND driver .....	.34	.29	.22
277974	SN75183N	DIP-14	5V, dual diff line driver .....	1.10	1.01	.94
51131	SN75492P	DIP-14	5V, HEX digit driver .....	3.45	3.00	2.85

## Texas Instruments Line Driver

Part No.	Product No.	Pkg.	Description	1	10	100
1061551	THS6012CDWP	SOIC-20	500mA dual diff. line driver .....	\$8.75	\$7.24	\$6.50

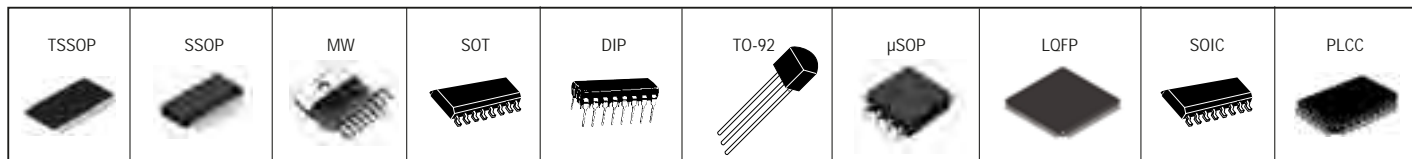
## National Semiconductor Motor/Display Drivers

Part No.	Product No.	Pkg.	Description	1	10	100
25216	MC3479P	DIP-16	7.2-16.5V, stepper motor driver .....	\$3.79	\$3.22	\$2.55
24230	LM3914N	DIP-18	25V, dot/bar display driver .....	2.39	2.05	1.94
300003	LM3914N-1	DIP-18	25V, dot/bar display driver .....	1.98	1.85	1.54
901010	LM3914N-1/NOBP	DIP-18	25V, dot/bar display driver .....	1.55	1.40	1.31
246625	LM3914V	PLCC-20	25V, dot/bar display driver .....	2.45	2.09	1.70
24256	LM3915N	DIP-18	25V, dot/bar display driver .....	2.63	1.94	1.43
901061	LM3915N-1	DIP-18	30B/step, 30db range dot/bar display driver	2.59	1.94	1.47
839885	LM3915N-1/NOBP	DIP-18	30B/step, 30db range dot/bar display driver	2.59	1.94	1.43
24272	LM3916N	DIP-18	3-25V, dot/bar display driver .....	2.25	1.91	1.44
901108	LM3916N-1	DIP-18	25V, dot/bar display driver .....	2.59	1.94	1.43

# Digital Interface, Delay Line, Clock Chips & EconoResets

Color Code Legend  
New Sale Lower\$ QtySave

Thousands of additional ICs are now available on our website.



## Digital Interface ICs

Part No.	Product No.	Pkg.	Description	1	10	50
171951	EDE702	DIP-18	Serial LCD interface .....	\$8.75	\$7.20	\$5.65
321710	EDE707	DIP-28	Octal 7-segment LED display decoder .....	8.99	7.65	6.75
171969	EDE1144	DIP-18	Keypad encoder .....	6.99	5.65	5.00
141532	EDE1200	DIP-18	Unipolar stepper motor controller .....	8.29	6.90	5.90
157526	EDE1204	DIP-18	Bipolar stepper motor controller .....	7.55	6.35	5.35
321736	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan .....	5.99	4.65	4.15
321761	EDE2208/P	DIP-18	8-pushbutton momentary to toggle .....	5.45	4.25	3.75

## 5000 Series & Clock Chips

Part No.	Cross Ref.	Pkg.	Description	1	10	50
32803	TCM5089N	DIP-16	Touch tone generator .....	\$5.25	\$4.75	\$4.05
26171	MM5450N	DIP-40	LED display driver .....	2.79	2.60	2.30
27422	LM555CN**	DIP-8	Timer .....	.29	.23	.20
126797	LMC555CN*	DIP-8	CMOS timer .....	.66	.61	.55
24328	LM556N*	DIP-14	Dual timer .....	.82	.60	.45
25101	MC146818	DIP-24	Real time clock with RAM .....	9.95	8.94	6.71
698496	M48T86PC1	DIP-24	5V PC real-time clock .....	6.09	5.87	5.41
10567	AM9513APC	DIP-40	Real time clock .....	39.95	33.96	25.47

\*10 pcs./\*\*20 pcs. in Linear series IC cabinet kit, pg 34    ♣ Pull = Extra Savings

## Delay Line

Part No.	Product No.	Pkg.	Description	1	10	100
779763	DS1010S-50	SOIC-16	10-tap silicon delay line, 5ns .....	\$6.89	\$6.53	\$6.20
779827	DS1020S-25	SOIC-16	Prog. 8-bit silicon delay line, 0.25ns .....	32.15	31.20	30.26
779843	DS1021S-25	SOIC-16	Prog. 8-bit silicon delay line, 0.25ns .....	19.75	14.90	13.09
861687	DS1100LZ-20	SOIC-8	3.3V 5-tap economy timing element, 20ns .....	6.75	5.16	4.53
779923	DS1100M-150	DIP-8	5-tap economy timing element, 150ns .....	4.05	3.86	3.67
861783	DS1100Z-20	SOIC-8	5-tap economy timing element, 20ns .....	5.59	5.13	4.12
779958	DS1100Z-30	SOIC-8	5-tap economy timing element, 30ns .....	4.55	4.34	4.12
780035	DS1135Z-10	SOIC-8	3-in-1 high-speed silicon delay line, 10ns .....	5.49	5.21	4.95

## Clock Chips

Part No.	Product No.	Pkg.	Description	1	5	100
861100	CY7B9910-5SC	SOIC-24	5V low skew buffer, 15-80MHz, 500ps, C-temp .....	\$5.85	\$5.30	\$4.83
779000	CY7B9910-5SI	SOIC-24	5V low skew buffer, 15-80MHz, 500ps, I-temp .....	10.25	9.53	8.93
779018	CY7B9910-7SC	SOIC-24	5V low skew buffer, 15-80MHz, 750ps, C-temp .....	5.95	5.36	4.93
861134	CY7B9911V-5JC	PLCC-32	ROBOCLOCK™ hi-spd, LV prog skew, 500ps, C-temp .....	22.15	20.66	19.37
779026	CY7B9911V-5JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 500ps, C-temp .....	22.15	20.66	19.37
778963	CY7B9911-2JC	PLCC-32	5V prog skew buffer, 250ps, 15-80MHz, C-temp .....	16.45	14.79	13.13
861054	CY7B9911-5JC	PLCC-32	5V prog skew buffer, 15-80MHz, C-temp .....	10.15	9.13	8.10
778971	CY7B9911-5JI	PLCC-32	5V prog skew buffer, 500ps, 15-80MHz, I-temp .....	13.55	12.63	11.84
861071	CY7B9911-7JC	PLCC-32	ROBOCLOCK™ prog skew buffer, 15-80MHz, 750ps, C-temp .....	8.85	8.03	7.12
861169	CY7B9911V-2JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 250ps, C-temp .....	14.49	13.17	11.68
861193	CY7B9911V-5JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 500ps, C-temp .....	7.39	6.89	6.46
861222	CY7B9911V-5JI	PLCC-32	ROBOCLOCK™ LV prog skew buffer, I-temp .....	11.09	10.33	9.69
779034	CY7B9911V-5JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 500ps, C-temp .....	6.25	5.69	5.17
779042	CY7B9911V-5JI	PLCC-32	ROBOCLOCK™ LV prog skew buffer, I-temp .....	14.06	11.71	9.88
861257	CY7B9911V-7JC	PLCC-32	ROBOCLOCK™ LV prog skew buffer, 750ps, C-temp .....	6.69	6.06	5.51
779051	CY7B992-5JC	PLCC-32	5V prog skew clock buffer, 500ps, C-temp .....	5.55	5.02	4.57
779069	CY7B992-7JI	PLCC-32	5V prog skew clock buffer, 750ps, I-temp .....	20.05	18.67	17.50
779392	CY7B993V-5AC	TOFP-100	ROBOCLOCK™ hi-spd multiphase PLL buffer, 500ps, C-temp .....	31.29	30.39	29.52
779405	CY7B993V-5AI	TOFP-100	ROBOCLOCK™ hi-spd multiphase PLL buffer, 500ps, I-temp .....	54.15	50.51	47.35
779413	CY7B994V-2AC	TOFP-52	ROBOCLOCK™ hi-spd multiphase PLL buffer, 250ps, C-temp .....	37.05	34.55	32.39
779421	CY7B994V-2BBI	TBGA-100	ROBOCLOCK™ hi-spd multiphase PLL buffer, 250ps, I-temp .....	82.79	77.26	72.42
779430	CY7B994V-5BBI	TBGA-100	ROBOCLOCK™ hi-spd multiphase PLL buffer, 500ps, C-temp .....	58.55	54.64	51.22

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product    ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 1.

## Clock Chips

For more Dallas Clock Chips  
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Part No.	Product No.	Pkg.	Description	1	10	100
863308	DS1307	DIP-8	5V I <sup>2</sup> C real time clock, 64 x 8 serial, C-temp .....	\$3.59	\$2.79	\$2.43
780609	DS1337C	SOIC-16	I <sup>2</sup> C serial real time, I-temp .....	2.65	2.42	2.21
780641	DS1339C-33	SOIC-16	I <sup>2</sup> C serial real time, I-temp .....	★	Call	Call
780676	DS1340Z-33	SOIC-8	I <sup>2</sup> C RTC with trickle charger, I-temp .....	3.19	2.39	1.57
780713	DS1388Z-33	SOIC-8	RTC/Supervisor w/ trickle charge & 512-bytes, I-temp .....	3.59	3.26	2.97
780721	DS1390U-33	μSOP-10	Low-voltage SPI/3-wire RTC w/ trickle charge, I-temp .....	★	Call	Call
780764	DS1501WE	TSOP-28	Y2K compliant watchdog real time, C-temp .....	11.69	8.64	7.86
780772	DS1501WEN	TSOP-28	Y2K compliant watchdog real time, I-temp .....	12.29	10.27	9.03
780781	DS1501WS	SOIC-28	Y2K compliant watchdog real time, C-temp .....	11.39	8.49	5.58
780810	DS1511Y	DIP-28	5V Y2K compliant watchdog real time, C-temp .....	19.69	16.14	10.61
780836	DS1554WP-120	EMOD-32	256k NV, Y2K compliant time keeping RAM, C-temp .....	23.39	21.25	19.32
780844	DS1556W-120	EMOD-32	1M NV, Y2K compliant time keeping RAM, C-temp .....	35.85	32.60	29.64
781054	DS1685E-3	TSSOP-24	3V real time, C-temp .....	6.69	4.99	3.28
781100	DS1685S-5	SOIC-24	5V real time, C-temp .....	6.19	4.74	4.17
781134	DS1687-5	DIP-24	5V real time, C-temp .....	9.09	6.94	6.10
781151	DS1688S	SOIC-28	3V-5V serialized real time w/ NV RAM, C-temp .....	7.39	6.71	6.10
781177	DS1693	DIP-28	3V-5V serialized real time w/ NV RAM, C-temp .....	19.25	14.66	12.88
781329	DS1742W-120	DIP-24	3.3V Y2KC NV time keeping RAM, C-temp .....	27.79	18.89	16.60
781337	DS1743-100	DIP-28	5V Y2K compliant NV time keeping RAM, C-temp .....	26.39	19.66	12.92
781370	DS1746-70	DIP-32	5V Y2K compliant NV time keeping RAM (128k x 8), C-temp .....	42.89	31.94	20.98
781388	DS1747WP-120	EMOD-32	3.3V Y2K compliant NV time keeping RAM (512k x 8), C-temp .....	35.45	32.20	29.28

↑ POWERCAP-34    ★ Please call or visit our website for minimum order quantity and pricing

## Clock Buffer

NEW

For more IDT Clock Buffers  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
1594795	2305-1DC	SOIC-8	3.3V zero delay clock buffer .....	\$ .61	\$ .57	\$ .56

## High Speed Quick Switches

NEW

For more IDT Quick Switches  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	5	50
1677347	QS32440	QSOP-20	CMOS 8-bit bus switch .....	★	\$ .295	\$ .298
1677398	QS32450	QSOP-20	CMOS 8-bit bus switch .....	★	.31	.29
1677478	QS32530	QSOP-16	Dual 4:1 mux/demux .....	★	.31	.29
1677531	QS32570	QSOP-16	Quad 2:1 mux/demux .....	★	.32	.301
1677638	QS32X245Q2	QVSO-40	Double width bus switch .....	1.01	.96	.92
1677718	QS32XVH245Q2	QVSO-40	2.5V/3.3V 16-bit high bandwidth bus switch .....	1.15	1.08	1.04
1677911	QS34X245Q3	Millipaq-80	32-bit multiwidth™ bus switch .....	1.07	1.01	.95
1678008	QS34XVH245Q3	QVSO-80	2.5V/3.3V 32-bit high bandwidth bus switch .....	1.92	1.80	1.73
1678041	QS3861PA	TSSOP-24	10-bit bus switch w/ flow-through output .....	.62	.57	.538
1678059	QS3861Q	QSOP-24	10-bit bus switch w/ flow-through output .....	★	.34	.323

\* Minimum order 5 pieces

## EconoResets

For more Dallas EconoReset  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
780262	DS1233-5	TO-92	5V EconoReset .....	\$1.32	\$1.00	\$ .90
780271	DS1233AZ-10	SOT-223	3.3V EconoReset .....	2.09	1.64	1.47
780297	DS1233MS-5	SOIC-8	EconoReset .....	2.75	2.10	1.88
780289	DS1233M-55	TO-92	EconoReset .....	1.34	1.02	.90
781548	DS1833-5	TO-92	5V EconoReset .....	1.75	1.31	1.18
781521	DS1833-10	TO-92	5V EconoReset .....	1.75	1.31	1.18
781556	DS1833Z-10	SOT-223	5V EconoReset .....	3.05	2.33	2.05

Additional Major Brand Products  
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## NXP/PHILIPS UART/DUARTs

For more NXP UART/DUARTs visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
856597	SC26C92A1A	PLCC-44	Dual asynch rec/transmitter DUART (I-temp)	\$10.45	\$9.95	\$9.47
918647	SC26C92C1A	PLCC-44	Dual asynch rec/transmitter DUART (C-temp)	6.25	5.68	5.17
856626	SC26C92C1B	POFP-44	Dual asynch rec/transmitter DUART (C-temp)	7.39	6.89	6.46
918663	SC28C94A1A	PLCC-52	Quad universal asynch rec/transmitter QUART	29.45	28.02	26.69
856749	SC28L91A1B	POFP-44	3.3V/5V universal asynch rec./trans. UART	9.39	8.95	8.53
918727	SC28L92A1A	PLCC-44	3.3V/5V dual universal asynch rec./trans. DUART	11.45	10.39	9.91
918751	SC28L92A1B	QFP-44	3.3V/5V dual universal asynch rec./trans. DUART	10.95	10.41	9.91
856651	SC28L194A1A	PLCC-68	Quad UART for 3.3V & 5V supply volt	23.75	22.61	21.53
918698	SC28L194A1B	QFP-68	Quad UART for 3.3V & 5V supply volt	30.75	28.70	26.90
856677	SC28L198A1A	PLCC-84	Octal UART for 3.3V & 5V supply volt	39.85	37.97	36.16
856706	SC28L198A1B	QFP-100	Octal UART for 3.3V & 5V supply volt	39.85	37.97	36.16
918786	SCC269AC1D2A	SOIC-24	Universal asynch rec./trans. UART	5.35	5.05	4.74
918815	SCC269AC1A4A	PLCC-44	Dual asynch rec./trans. DUART (C-temp)	6.65	6.33	6.03
856781	SCC269AC1B4A	POFP-44	Dual asynch rec./trans. DUART	9.25	8.61	8.07
918840	SCC269AE1A4A	PLCC-44	Dual asynch rec./trans. DUART (I-temp)	11.09	10.33	9.69
918874	SCC2698BC1A8A	PLCC-84	Enhanced octal universal asynch rec./trans. UART	34.19	32.55	31.00

## UARTs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43158	6402	DIP-40	5V CMOS	\$7.49	\$6.42	\$5.99
27596	NS16550AN	DIP-40	Asynch. communication element, 5V	6.29	5.12	4.11
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	2.79	2.27	1.79
905918	PC16552DV	PLCC-44	Dual asynchronous receiver/transmitter w/ FIFO	8.45	7.71	7.71

◆ Pull = Extra Savings

## NXP/PHILIPS MUX/DEMUX

For more NXP MUX/DEMUX visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	5	50
916932	HEF4051BPN	DIP-16	8-channel analog MUX/DEMUX	*	\$ .27	\$ .245
851286	HEF4052BTD	SOIC-16	Dual 4-channel analog MUX/DEMUX	*	.387	.348
917003	HEF4053BTD	SOIC-16	Triple 2-channel analog MUX/DEMUX	*	Call	Call

★ Please call or visit our website for minimum order quantity and pricing

## MAXIM Decoder/Drivers

For more Maxim Decoder/Drivers visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
804869	ICM7212AMIP	DIP-40	4-digit display decoder/driver	\$5.35	\$4.11	\$3.74
804885	ICM7217AIP	DIP-28	4-digit (LED) presettable up/down counter	★	Call	Call
804922	ICM7218BIP	DIP-28	8-digit LED display driver (CC)	11.49	8.39	7.63
881362	ICM7224IPL	DIP-40	4 1/2 digit LCD counter/decoder/driver	17.19	13.03	11.85

★ Please call or visit our website for minimum order quantity and pricing

## Encoders/Decoders

Part No.	Cross Ref.	Pkg.	Description	1	10	100
123730	HT12E	DIP-18	Encoder, 2.4-12V	\$1.69	\$1.49	\$1.29
123748	HT12D	DIP-18	Decoder, 2.4-12V	1.69	1.49	1.29
243408	TP3054	DIP-16	U-law PCM CODEC & filter, 5V	2.94	2.31	2.08
296711	MC145027P	DIP-16	Decoder, 4.5-18V	2.95	2.65	2.40
1585047	HSDL-7001\$100	SOIC-16	IR 3/16 encoder/decoder (Avago)	3.39	2.77	2.61

## Stepper Motor Drivers/Controllers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
924545	L293DD	SOIC-20	Push pull 4-ch driver w/ diodes	\$5.29	\$4.63	\$3.45
288067	L297/1	DIP-20	Stepper motor controller, 5V	5.19	4.99	4.46
245403	L298N	MW-15	Dual full-bridge driver, 46V	3.05	2.65	2.45
288091	L6202	DIP-18	DMOS full bridge driver, 48V	6.79	5.76	4.61
288104	L6203	MW-11	DMOS full bridge driver, 48V	9.05	8.75	8.25

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## KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

### 175901: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
- Programmable accelerations and minimum step rates



175901

### 323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Description	Package	1	10	50
175901	Motion control chip for stepper motors	DIP-28, 0.3" .....	\$25.45	\$22.75	\$20.55
323934	SC servo motion control IC	DIP-28, 0.3" .....	32.95	30.25	28.33

## MAXIM Analog Switches

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Part No.	Product No.	Pkg.	Description	1	10	100
809871	MAX307EWI	SOIC-28	16-ch/dual 8-ch high-perf. CMOS analog MUX	\$19.49	\$14.78	\$13.43
807621	MAX318CSA	SOIC-8	SPST (NO) CMOS analog switch (C-temp)	3.59	2.67	2.43
810249	MAX365CPE	DIP-16	Quad SPST (NO) analog switch (C-temp)	★	Call	Call
810521	MAX393CSE	SOIC-16	Quad SPST (2 NO / 2 NC) analog switch (C-temp)	3.85	3.07	2.79
810960	MAX4053ACPE	DIP-16	Low-volt, CMOS analog MUX/switch	4.09	3.79	3.55
810986	MAX4053AESE	SOIC-16	Low-volt, CMOS analog MUX/switch (I-temp)	4.89	4.57	4.28
810994	MAX4066ACSD	SOIC-14	Low-volt, quad SPST CMOS analog switch	★	Call	Call
811006	MAX4066CSD	SOIC-14	Low-volt, quad SPST CMOS analog switch	2.15	1.97	1.85
812455	MAX4524EUB	μMAX-10	Low-volt, single supply MUX & switch (I-temp)	★	Call	Call
812551	MAX4543EUA	μMAX-8	Low-volt, single supply dual SPST (NONC) analog sw (I-temp)	★	Call	Call
812578	MAX4544CUA	μMAX-8	Low-volt, single supply dual SPST analog switch	1.45	1.35	1.27
812738	MAX4601EAE	SSOP-16	2.5Ω quad SPST (NC) CMOS analog switch (I-temp)	★	Call	Call
812754	MAX4602CAE	SSOP-16	2.5Ω quad SPST (NO) CMOS analog switch	9.15	8.52	7.98
812818	MAX4619CUE	TSSOP-16	Hi-speed, low-volt, SPDT CMOS analog MUX/switch (C-temp)	★	Call	Call
812851	MAX4622CPE	DIP-16	Dual 5Ω SPDT (2 NC/2 NO) analog switch (I-temp)	★	Call	Call
812877	MAX4622ESE	SOIC-16	Dual 5Ω SPDT (2 NC/2 NO) analog switch (I-temp)	5.59	4.13	3.76
812893	MAX4623CSE	SOIC-16	Dual 5Ω DPST (NO) analog switch (C-temp)	★	Call	Call
812981	MAX4641EUA	μMAX-8	Hi-speed, 4Ω dual SPST CMOS analog switch (I-temp)	1.85	1.42	1.30
813010	MAX4644EUA	μMAX-8	Hi-speed, 4Ω SPDT CMOS analog switch	1.45	1.37	1.30
813116	MAX4661CAE	SSOP-16	2.5Ω quad SPST (NC) CMOS analog switch	8.89	7.09	6.45
813204	MAX4665CSE	SOIC-16	5Ω quad SPST (NO) CMOS analog switch (C-temp)	6.79	6.31	5.92

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## MAXIM A/D Converters

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Part No.	Product No.	Pkg.	Description	1	10	100
806653	MAX170DPCA	DIP-8	Serial output 5.6μs 12-bit ADC (±1LSB)	\$24.89	\$24.48	\$24.06
806696	MAX172BCNG	DIP-24	Complete 10μs CMOS 12-bit ADC (±1LSB)	27.89	21.23	19.31
807242	MAX186BEWP	SOIC-20	Low-power 8-ch serial 12-bit ADC (I-temp)	43.19	40.29	37.77
807269	MAX186CCPP	DIP-20	Low-power 8-ch serial 12-bit ADC (C-temp)	23.75	22.13	20.75
807285	MAX186CCWP	SOIC-20	Low-power 8-ch serial 12-bit ADC (C-temp)	20.79	18.89	17.00
807322	MAX187BCPA	DIP-8	5V low-power 12-bit serial ADC (±1LSB)	20.75	15.55	14.14
807349	MAX187BCWE	SOIC-16	5V low-power 12-bit serial ADC (±1LSB) C-temp	20.49	15.55	14.14
807576	MAX192BEPP	DIP-20	Low-power 8-ch serial 10-bit ADC (±1LSB) I-temp	20.45	19.08	17.89
805132	MAX1138EE	QSO-16	4.5-5.5V LP 12-ch 2-wire serial 10-bit ADC	8.25	6.81	6.20
805255	MAX1202BCAP	SSOP-20	5V 8-ch serial 12-bit ADC w/ 3V digital interface (±1LSB)	13.55	13.31	13.07
805423	MAX1241ACSA	SOIC-8	2.7V low-power 12-bit serial ADC (±1/2LSB) C-temp	15.19	11.06	10.06
805440	MAX1241AESA	SOIC-8	2.7V low-power 12-bit serial ADC (±1/2LSB) I-temp	18.19	13.25	12.06
805642	MAX1290ACEI	QSO-28	400ksp/s, 5V, 8-ch 12-bit ADC w/ 2.5V ref. and parallel (±0.3LSB)	22.75	21.21	19.89
804658	ICL7137CPL	DIP-40	Low-power 3 1/2 digit ADC	11.89	8.69	7.91
827913	MX7572JN05	DIP-24	Complete high-speed 12μs CMOS 12-bit ADC (±1LSB)	52.29	48.79	45.74

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# A/D & D/A Converters

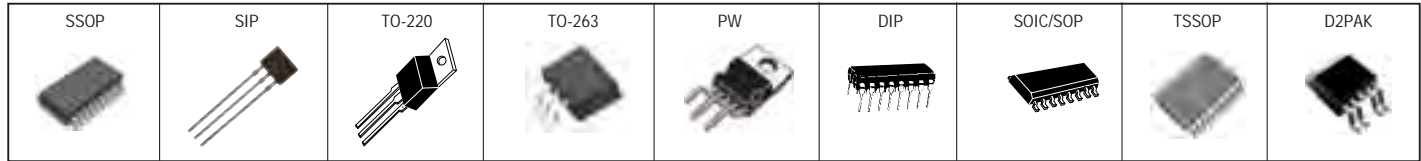


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Part No.	Product No.	Pkg.	Description	1	10	100	
886307	ADC0802LCN	DIP-20	8-bit $\mu$ P compatible ADC, $\pm 1$ LSB, I-temp	\$6.19	\$4.85	\$3.91	
828289	ADC0802LCN	DIP-20	8-bit $\mu$ P compatible A/D convtr ( $\pm 1/2$ bit) ...	3.89	3.72	3.53	
828318	ADC0802LCWM	SOIC-20	8-bit $\mu$ P compatible ADC ( $\pm 1/2$ Bit) .....	5.89	4.72	3.78	
886323	ADC0804LCWM	DIP-20	8-bit $\mu$ P compatible ADC ( $\pm 1$ Bit) .....	2.15	1.86	1.42	
828406	ADC0808CCN	DIP-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1/2$ LSB)	4.65	4.16	3.38	
886340	ADC0808CCV	PLCC-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1/2$ LSB)	5.51	4.41	3.37	
830944	ADC0809CCN	DIP-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1$ LSB) ...	2.99	2.25	2.08	
831007	ADC0809CCV	PLCC-28	8-bit $\mu$ P compatible ADC w/ 8-ch MUX ( $\pm 1$ LSB) ...	3.45	3.26	3.10	
889006	ADC0820BCWM	SOIC-20	8-bit high-speed $\mu$ P ADC w/ track/hold ( $\pm 1/2$ LSB)	4.99	4.36	4.03	
831066	ADC0820CCN	DIP-20	8-bit high-speed $\mu$ P, ADC w/ track/hold ( $\pm 1$ LSB) ..	3.19	2.89	2.30	
831171	ADC0831CCN	DIP-8	8-bit serial I/O ADC w/ MUX (1 analog input)	1.75	1.54	1.32	
831200	ADC0832CCN	DIP-8	8-bit serial I/O ADC w/ MUX (2 analog input)	2.65	2.02	1.54	
889057	ADC0834BCN	DIP-14	8-bit serial I/O ADC w/ MUX (4 analog input)	3.35	2.56	2.35	
831234	ADC0838CIWM	SOIC-20	8-bit serial I/O ADC w/ MUX (8 analog input)	2.69	2.40	2.11	
889081	ADC0844CCN	DIP-20	8-bit $\mu$ P, ADC w/ MUX options (4-ch, $\pm 1$ LSB) ..	5.09	3.89	3.60	
889111	ADC0848CCV	PLCC-28	8-bit $\mu$ P, ADC w/ MUX options (8-ch, $\pm 1$ LSB) ..	5.25	4.79	4.43	
828377	ADC08062CWM	DIP-20	500ns ADC w/ S/H function & input MUX .....	4.25	3.37	3.04	
831293	ADC08832IM	SOIC-8	8-bit serial I/O CMOS ADC w/ MUX & sample/hold	2.39	1.83	1.40	
831411	ADC1061CIN	DIP-20	10-bit high-speed $\mu$ P, ADC w/ track/hold .....	5.65	5.17	4.76	
831322	ADC10154CIN	SOIC-24	10-bit plus sign 4 $\mu$ s ADC w/ 4 or 8-ch MUX	5.39	4.97	4.55	
831357	ADC10158CI	DIP-28	10-bit plus sign 4 $\mu$ s ADC w/ 4 or 8-ch MUX	5.39	4.96	4.55	
831381	ADC10158CIN	SOIC-28	10-bit plus sign 4 $\mu$ s ADC w/ 4 or 8-ch MUX	4.89	3.70	3.41	
831445	ADC10664CIN	SOIC-24	10-bit 360ns ADC w/ input MUX & sample/hold ..	5.99	4.60	4.26	
831517	ADC1173CMT	SOIC-24	8-bit, 3V, 15MSPS, 33mW ADC .....	2.59	2.32	2.05	
831541	ADC12138CIN	DIP-28	Self-calibrating 12-bit plus sign serial I/O ADC w/ .....	6.39	5.91	5.43	
889217	ADC78H90CINT	TSSOP-16	8-channel, 500kSPS, 12-bit ADC .....	5.25	4.76	4.26	

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Part No.	Product No.	Pkg.	Description	1	10	100	
761248	TLC549IP	DIP-8	8-bit ADC w/ serial control .....	\$2.75	\$2.53	\$2.39	
823162	TLC0820AIDWP	SOIC-20	Adv. LINCMOS high-speed 8-bit ADC	4.25	3.40	3.36	
823197	TLC0820AIDWP	DIP-20	Adv. LINCMOS high-speed 8-bit ADC	4.45	3.59	3.52	
823218	TLC0838CDWP	SOIC-20	8-bit ADC w/ serial control .....	3.59	3.33	3.14	
761029	TLC1541INP	DIP-20	10-bit ADC w/ serial control/11 inputs .....	7.09	6.69	6.29	
823234	TLC1542INP	DIP-20	10-bit ADC w/ serial control/11 analog inputs	7.05	6.52	6.14	
761555	TLV1543CDWP	SOIC-20	3.3V 10-bit ADC w/ serial control/11 analog inputs	5.35	4.93	4.64	
761117	TLC2543IDWP	SOIC-20	12-bit ADC w/ serial control/11 analog input ..	11.75	10.89	10.26	
891923	ADS5500IAPP	PAP-64	14-bit, 125MSPS ADC .....	127.35	118.41	111.56	
824501	TLC7135CN	DIP-28	4 1/2 digit precision ADC .....	4.85	4.47	4.21	

MAXIM		D/A Converters		For more Maxim D/A Converters visit <a href="http://www.Jameco.com">www.Jameco.com</a>			
Part No.	Product No.	Pkg.	Description	1	10	100	
814039	MAX500AEJE	DIP-16	CMOS quad serial interface 8-bit DAC ( $\pm 1$ LSB) I-temp	★	Call	Call	
814178	MAX505ACAG	SSOP-24	Quad 8-bit DAC w/ rail-to-rail volt ( $\pm 1$ LSB) ..	★	Call	Call	
814240	MAX506BCWP	SOIC-20	Quad 8-bit DAC w/ rail-to-rail volt ( $\pm 1/2$ LSB)	16.09	12.19	11.09	
814320	MAX509BCWP	SOIC-20	Quad serial 8-bit DAC w/ rail-to-rail ( $\pm 1/2$ LSB)	14.09	10.69	9.72	
814451	MAX512CSD	SOIC-14	Low-cost triple 8-bit ADC w/ serial int (C-temp)	7.09	5.87	5.34	
814717	MAX521BCWG	SOIC-24	Quad/octal 2-wire ser 8-bit DAC w/ rail-to-rail ( $\pm 1/2$ LSB) ..	★	Call	Call	
814768	MAX522CSA	SOIC-8	Dual 8-bit voltage-output serial DAC ..	6.15	4.72	4.29	
814952	MAX527DCWG	SOIC-24	Calibrated quad 12-bit DAC ( $\pm 1$ LSB)	30.65	30.01	29.36	
815867	MAX543BEJA	DIP-8	CMOS 12-bit serial input multiply DAC ( $\pm 1$ LSB) I-temp	27.15	25.32	23.74	
814418	MAX5106EEF	QSOP-16	Non-volatile quad 8-bit DAC (I-temp) .....	★	Call	Call	
815314	MAX5353AEUA	$\mu$ MAX-8	LP 12-bit DAC w/ serial interface ( $\pm 1$ LSB) I-temp	20.25	18.87	17.69	
1239110	MX7523JN+	DIP-16	8-bit CMOS multiplying DAC .....	5.79	5.53	5.25	
827972	MX7837JN	DIP-24	Complete dual 12-bit multiply DAC ( $\pm 1/2$ LSB)	23.69	22.09	20.70	
828001	MX7837JR	SOIC-24	Complete dual 12-bit multiply DAC ( $\pm 1$ LSB)	19.19	17.88	16.57	

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Part No.	Product No.	Pkg.	Description	1	10	100	
831824	DAC0800LCMN	SOIC-16	8-bit, 100ns, $\pm 4.5$ to $\pm 18$ V, 33mW ...	\$1.59	\$1.19	\$0.86	
831859	DAC0800LCMN	DIP-16	8-bit, 100ns, $\pm 4.5$ to $\pm 18$ V, 33mW .....	.97	.74	.68	
831883	DAC0802LCM	SOIC-16	8-bit, 100ns, $\pm 4.5$ to $\pm 18$ V, 33mW .....	1.40	1.27	.92	
831921	DAC0808LCM	SOIC-16	8-bit, 150ns, $\pm 4.5$ to $\pm 18$ V, 33mW .....	1.56	1.20	.92	
831955	DAC0808LCN	DIP-16	8-bit, 150ns, $\pm 4.5$ to $\pm 18$ V, 33mW .....	1.08	1.01	.94	
831980	DAC0832LCWM	SOIC-20	8-bit $\mu$ P compatible, double buffered	3.05	2.33	2.16	

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Part No.	Product No.	Pkg.	Description	1	10	100	
761731	TLV5618ACD	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ power dwn	\$10.55	\$9.78	\$9.22	
826603	TLV5620CN	DIP-14	Quad 8-bit DAC .....	2.99	2.77	2.61	
761774	TLV5636ID	SOIC-8	2.7-5.5V LP 12-bit DAC w/ int. ref./pwr dwn	10.15	9.42	8.87	
761791	TLV5638CD	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ int. ref./pwr dwn	9.75	9.06	8.53	
761811	TLV5638ID	SOIC-8	2.7-5.5V LP dual 12-bit DAC w/ int. ref./pwr dwn	10.39	9.66	9.10	
824536	TLC7225CDW	SOIC-24	Quad 8-bit DAC .....	5.79	5.38	5.07	
761424	TLC7226CDW	SOIC-20	Quad 8-bit DAC .....	5.35	4.93	4.64	
824561	TLC7226CN	DIP-20	Quad 8-bit DAC .....	5.59	5.17	4.87	
824595	TLC7226IDW	SOIC-20	Quad 8-bit DAC .....	5.69	5.29	4.98	
824624	TLC7524EDG4	SOIC-16	8-bit multiplying DAC .....	3.99	3.72	3.49	
824683	TLC7528EDW	SOIC-20	Dual 8-bit multiplying DAC .....	4.45	4.13	3.89	

## A/D & D/A Converters

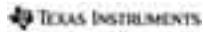
Part No.	Cross Ref.	Pkg.	Description	1	10	100	
43748	7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED display, 9V ...	\$2.49	\$2.21	\$2.10	
43756	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED display, $\pm 5$ V ...	2.95	2.40	2.05	
875683	ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED display, 6V .....	3.29	3.06	2.87	
290263	ICL7135CPI	DIP-28	A/D, 4 1/2-digit BCD output, 5V .....	5.55	4.53	3.83	
10145	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel .....	4.29	3.10	2.69	
10153	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel .....	1.99	1.75	1.39	
10170	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel .....	4.38	3.99	3.09	
10188	ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel .....	3.06	2.68	2.07	
10225	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5 $\mu$ s .....	2.59	2.39	2.05	
116100	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32 $\mu$ s .....	1.79	1.63	1.48	
296690	AD7226KCN	DIP-20	D/A, 8-bit, 2-12.5V, 4 $\mu$ s, 4-channel .....	18.19	17.17	15.95	
277165	MAX186BCPP	DIP-20	A/D, 12-bit, 5V, 6 $\mu$ s, 8-channel .....	27.05	25.65	23.23	
277131	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-channel .....	11.69	9.21	7.58	
115158	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3 $\mu$ s, 1-channel ..	12.59	11.99	11.29	
14904	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	1.49	1.12	.83	
14947	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	1.43	1.18	.75	
14963	DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu$ s .....	4.75	4.57	3.98	
128186	DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu$ s .....	2.59	2.02	1.56	
290976	TLV5628CN	DIP-16	D/A, 8-bit, 3V, 1MHz, 8-channel .....	4.99	4.05	3.15	
290052	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns .....	3.19	2.60	1.95	

## Power Management DC-DC Converters

Part No.	Product No.	Pkg.	Description	1	10	100	
906671	PT5101A	SIP-3	5V 1A pos step-down int. switch reg. ...	\$19.15	\$17.76	\$16.73	
906718	PT5101C	SIP-3	5V 1A pos step-down int. switch reg. ....	19.15	17.76	16.73	
906751	PT5101N	SIP-3	5V 1A pos step-down int. switch reg. ....	19.15	17.76	16.73	
906814	PT6212P	SIP-12	5V 2A adj. pos. step-down int. switch reg. ..	27.55	25.61	24.13	
906857	PT6302G	SIP-12	5V 3A adj. pos. step-down int. switch reg. ..	32.25	29.96	28.23	
906890	PT6302N	SIP-12	5V 3A adj. pos. step-down int. switch reg. ..	30.95	28.75	27.09	
906937	PT6304N	SIP-12	12V 3A adj. pos. step-down int. switch reg. ..	30.95	28.75	27.09	
906970	PT6304R	SIP-12	12V 3A adj. pos. step-down int. switch reg. ..	32.25	29.96	28.23	
828908	PT6361C	SIP-12	11A, 12V input adj. int. switch reg. ....	37.29	33.58	30.22	
828924	PT6464A	SIP-12	14A, 5V input adj. int. switch reg. ....	45.65	42.41	39.95	

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## Power Management DC-DC Conv. (Cont.)

Part No.	Product No.	Pkg.	Description	1	10	100
907016	PT78ST105H	SIP-3	5V 1.5A pos. step-down int. switch reg. ...	\$22.49	\$20.90	\$19.69
907059	PT78ST105S	SIP-3	5V 1.5A pos. step-down int. switch reg. ....	22.49	20.90	19.69
907091	PT78ST105V	SIP-3	5V 1.5A pos. step-down int. switch reg. ....	22.49	20.90	19.69
907139	PT78ST112V	SIP-3	12V 1.5A pos. step-down int. switch reg. ...	22.49	20.90	19.69
907171	PTH03000WAH	DIP-5	6A, 3.3V input non-isolated wide-output adj. ...	17.95	16.67	15.71
907219	PTH03000WAS	DIP-5	6A, 3.3V input non-isolated wide-output adj. ...	17.95	16.67	15.71
907294	PTH03020WAH	DIP-10	22A, 3.3V input non-isolated wide-output adj. ...	37.05	34.43	32.44
828967	PTH03020WAS	DIP-10	22A, 3.3V input non-isolated wide-output adj. ...	37.05	34.43	32.44
907331	PTH03050WAH	DIP-6	6A, 3.3V input non-isolated wide-output adj. ...	17.05	15.85	14.93
907374	PTH03050WAS	DIP-6	6A, 3.3V input non-isolated wide-output adj. ...	17.05	15.85	14.93
828983	PTH03050YAS	DIP-6	6A non-isolated DDR/QDR memory bus term. ...	17.05	15.85	14.93
907403	PTH03060WAH	DIP-10	10A, 3.3V input non-isolated step-down switch. ...	24.19	22.49	21.19
907446	PTH05000WAH	DIP-5	6A, 5V input non-isolated wide-output adj. ...	17.95	16.67	15.71
907489	PTH05000WAS	DIP-5	6A, 5V input non-isolated wide-output adj. ...	17.95	16.67	15.71
907526	PTH05010WAH	DIP-10	15A, 5V input non-isolated wide-output adj. ...	28.65	26.63	25.09
907569	PTH05010WAS	DIP-10	15A, 5V input non-isolated wide-output adj. ...	28.65	26.63	25.09
907606	PTH05020WAH	DIP-10	22A, 5V input non-isolated wide-output adj. ...	37.05	34.43	32.44
907649	PTH05020WAS	DIP-10	22A, 5V input non-isolated wide-output adj. ...	37.05	34.43	32.44
829020	PTH05030WAS	DIP-13	30A, 5V input non-isolated wide-output adj. ...	41.99	39.02	36.77
907681	PTH05050WAH	DIP-6	6A, 5V input non-isolated wide-output adj. ...	17.05	15.85	14.93
907729	PTH05050WAS	DIP-6	6A, 5V input non-isolated wide-output adj. ...	17.05	15.85	14.93
907761	PTH05060WAH	DIP-10	10A, 5V input non-isolated wide-output adj. ...	24.19	22.49	21.19
907809	PTH05060WAS	DIP-10	10A, 5V input non-isolated wide-output adj. ...	24.19	22.49	21.19
907841	PTH12000WAS	DIP-5	6A, 12V input non-isolated wide-output adj. ...	17.95	16.67	15.71
907921	PTH12010WAS	DIP-10	12A, 12V input non-isolated wide-output adj. ...	28.65	26.63	25.09
907964	PTH12020WAH	DIP-10	18A, 12V input non-isolated wide-output adj. ...	37.05	34.43	32.44
908001	PTH12020WAS	DIP-10	18A, 12V input non-isolated wide-output adj. ...	37.05	34.43	32.44
829046	PTH12030WAH	DIP-13	26A, 12V input non-isolated wide-output adj. ...	41.99	39.02	36.77
829062	PTH12050LAH	DIP-6	6A, 12V input non-isolated wide-output adj. ...	24.59	22.83	21.51
899917	DCP010505BP	DIP-7	Mini 1W unreg. DC/DC converter .....	13.95	12.92	12.18
899950	DCP010505BP	SOP-7	Mini 1W unreg. DC/DC converter .....	13.95	12.92	12.18
900156	DCP010515DBP	DIP-7	Mini 1W isolated unreg. DC/DC conv. ...	15.35	14.25	13.43
900199	DCP010515DBP	SOP-7	Mini 1W isolated unreg. DC/DC conv. ...	13.95	12.92	12.18
900236	DCP011515DBP	DIP-7	Mini 1W isolated unreg. DC/DC conv. ...	15.35	14.25	13.43
900332	DCP020515DU	SOP-12	Mini 2W isolated unreg. DC/DC conv. ...	18.35	17.03	16.05
900375	DCP022415DU	SOP-12	Mini 2W isolated unreg. DC/DC conv. ...	18.35	17.03	16.05
900455	DCR010505U	SOP-12	Mini 1W isolated reg. DC/DC conv. ...	16.39	15.22	14.34



## Voltage Regulators

For more ST Micro SMPS visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10
813044	VIPER100A-E	PW-HV	SMPS Primary IC (700VDS, 3AIn) .....	★	Call
813061	VIPER100ASP-E	PowerSO-10	SMPS Primary IC (700VDS, 3AIn) .....	★	Call
813087	VIPER20-E	PW-HV	SMPS Primary IC (620VDS, 0.5AIn) .....	★	Call
813108	VIPER50A-E	PW-HV	SMPS Primary IC (700VDS, 5AIn) .....	★	Call
813124	VIPER53DIP-E	DIP-8	Off-line primary switch .....	★	Call

★ Please call or visit our website for minimum order quantity and pricing

## MAXIM DC-DC Controllers

For more Maxim DC-DC Controllers visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
821247	MAX710ESE	SOIC-16	3.3V/5V step up/down DC-DC conv. ...	\$7.09	\$5.49	\$4.95
821271	MAX710ESE+	SOIC-16	3.3V/5V step up/down DC-DC conv. ...	7.09	5.49	4.95
821909	MAX738AEP+	DIP-8	5V step-down curr mode PWM DC-DC conv. ...	8.25	7.67	7.19
822670	MAX763ACSA	SOIC-8	3.3V step-down curr mode PWN DC-DC conv. ...	4.79	4.21	3.62
806856	MAX1771ESA+	SOIC-8	12V or adj. hi-eff., step-up DC-DC contr. I-temp	6.05	4.98	4.54

## ON Semiconductor® DC-DC Controller

For more ON Semi Controllers visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
804041	UC3845BD1G	SOIC-8	Hi performance curr mode controllers	\$1.19	\$1.04	\$0.92

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◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

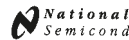
⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend

New Sale Lower\$ QtySave

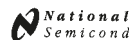
## MAXIM Voltage Detection/Converters

Part No.	Product No.	Pkg.	Description	1	10	100
881856	MAX1680ESA+	SOIC-8	125mA freq. select switched-cap. volt conv (I-temp)	\$3.79	\$2.94	\$2.67
881282	ICL7660ESA	SOIC-8	Switched-capacitor volt conv (I-temp) ...	3.79	2.94	2.67
881320	ICL7662EBA	SOIC-8	CMOS voltage converter (I-temp) .....	4.39	3.37	3.07
881354	ICL7665ACSA	SOIC-8	μP volt monitor w/ dual over/undervolt detection	5.05	3.99	3.54
804789	ICL7665AEP+	DIP-8	μP volt monitor w/ dual over/undervolt detect (I-temp)	7.25	6.73	6.31
885751	MAX8211ESA	SOIC-8	μP volt monitor w/ prog volt detection (I-temp)	5.15	3.77	3.43
823891	MAX8212CSA	SOIC-8	μP volt monitor w/ prog volt detection ....	2.85	2.16	1.97



## Simple Switcher® Voltage Regulators

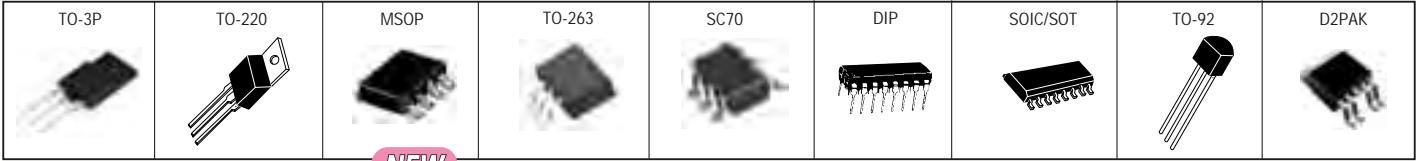
Part No.	Product No.	Pkg./Pins	Description	1	10	100
156566	LM2574N-5	DIP-8	Step-down 5-voltage regulator .....	\$1.86	\$1.52	\$1.16
835884	LM2574N-ADJ/NOPB	DIP-8	500mA, adjustable step-down volt. reg. ...	1.39	1.25	1.14
279638	LM2575HVT-5.0	TO-220	Switcher 1A step down V-reg. high Vin range	3.95	3.74	3.52
693177	LM2575HVT-5.0	TO-220/5	Switcher 1A step down V-reg. high Vin range	3.95	3.35	3.15
894500	LM2575T-5.0/LB03	TO-220/5	1A, 5V step-down voltage regulator .....	2.95	2.35	1.73
192372	LM2576HVT-ADJ	TO-220/5	Switcher 3A step down V-reg. high Vin range	5.09	3.93	2.95
245569	LM2576T-5.0	TO-220/5	Simple switcher 3A step down voltage reg. ...	2.05	1.87	1.40
894770	LM2576T-12	TO-220/5	3A, 12V step-down voltage regulator ....	3.15	2.41	1.84
120977	LM2576T-ADJ	TO-220/5	Simple switcher 3A step down voltage reg. ...	1.69	1.37	1.05
310391	LM2576S-5.0	TO-263/5	Simple switcher 3A step-down voltage reg. ...	4.15	3.22	2.90
290888	LM2674M-ADJ	SOIC-8	Adj. voltage hi efficiency switcher .....	2.85	2.35	2.20
895457	LM2670S-ADJ	TO-263/7	Hi-eff. 3A step-down volt. reg. w/ sync ..	4.55	3.50	3.24
895473	LM2671M-5.0	SOIC-8	Pwr. conv. hi-eff 500mA step-down volt. reg.	3.19	2.44	2.26
895511	LM2672M-3.3	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg. ...	4.05	3.11	2.88
895570	LM2672M-5.0	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg. ...	4.05	3.11	2.88
895617	LM2672M-ADJ	SOIC-8	Pwr. conv. hi-eff 1A step-down volt. reg. ...	4.05	3.11	2.88
895650	LM2673S-3.3	TO-263/7	3A step-down volt. reg. w/ adj. current limit	4.55	3.50	3.24
895684	LM2673S-ADJ	TO-263/7	3A step-down volt. reg. w/ adj. current limit	4.55	3.50	3.24
895721	LM2674M-3.3	SOIC-8	Pwr. conv. hi-eff. 500mA step-down volt. reg.	2.99	2.31	2.14
895772	LM2674M-5.0	SOIC-8	Pwr. conv. hi-eff. 500mA step-down volt. reg.	2.99	2.31	2.14
895810	LM2675M-3.3	SOIC-8	Pwr. conv. hi-eff. 1A step-down volt. reg. ....	3.89	2.98	2.76
895852	LM2675M-5.0	SOIC-8	Pwr. conv. hi-eff. 1A step-down volt. reg. ....	3.89	2.98	2.76
895932	LM2676S-12	TO-263/7	Hi-eff. 3A step-down volt. reg. ....	4.35	3.33	3.09
896011	LM2676S-3.3/NOPB	TO-263/7	Hi-eff. 3A step-down volt. reg. ....	4.35	3.34	3.09
896054	LM2676S-5.0	TO-263/7	Hi-eff. 3A step-down volt. reg. ....	4.35	3.33	3.09
896151	LM2676S-ADJ/NOPB	TO-263/7	Hi-eff. 3A step-down volt. reg. ....	4.35	3.34	3.09



## Low-Dropout Voltage Regulators

Part No.	Product No.	Pkg./Pins	Description	1	10	100
893312	LM1084IS-3.3	TO-263/3	5A 3.3V LDO pos reg (I-temp) .....	\$2.99	\$2.35	\$2.17
893355	LM1084IS-5.0	TO-263/3	5A 5V LDO pos reg (I-temp) .....	3.05	2.35	2.17
835577	LM1084IS-ADJ/NOPB	TO-263/3	5A adj. LDO pos reg (I-temp) .....	2.70	2.49	2.11
835585	LM1084IT-3.3/NOPB	TO-220/3	5A 3.3V LDO pos reg (I-temp) .....	3.45	2.82	2.16
835593	LM1084IT-5.0	TO-220/3	5A 5V LDO pos reg (I-temp) .....	2.85	2.42	2.16
835606	LM1085IS-3.3/NOPB	TO-263/3	3A 3.3V LDO pos reg (I-temp) .....	1.94	1.82	1.62
835614	LM1085IS-5.0/NOPB	TO-263/3	3A 5V LDO pos reg (I-temp) .....	2.10	1.94	1.62
835622	LM1085IS-ADJ/NOPB	TO-263/3	3A adj. LDO pos reg (I-temp) .....	1.94	1.82	1.62
893486	LM1085IT-3.3	TO-220/3	3A 3.3V LDO pos reg (I-temp) .....	2.66	2.17	1.66
893523	LM1085IT-5.0	TO-220/3	3A 5V LDO pos reg (I-temp) .....	2.87	2.17	1.66
893620	LM1085IT-ADJ/NOPB	TO-220/3	3A adj. LDO pos reg (I-temp) .....	2.10	1.90	1.61
893697	LM1086CS-3.3/NOPB	TO-263/3	1.5A 3.3V LDO pos reg (I-temp) .....	1.66	1.55	1.46
893742	LM1086CS-ADJ/NOPB	TO-263/3	1.5A adj. LDO pos reg (I-temp) .....	1.66	1.55	1.46
835631	LM1086CT-ADJ/NOPB	TO-220/3	1.5A adj. LDO pos reg (C-temp) .....	1.62	1.52	1.30
835649	LM1086IS-3.3/NOPB	TO-263/3	1.5A 3.3V LDO pos reg (I-temp) .....	1.66	1.55	1.46
893865	LM1086IS-ADJ	TO-263/3	1.5A adj. LDO pos reg (I-temp) .....	1.66	1.55	1.30
835657	LM1086IS-ADJ/NOPB	TO-263/3	1.5A adj. LDO pos reg (I-temp) .....	1.66	1.55	1.30
835673	LM1086IT-5.0/NOPB	TO-220/3	1.5A 5V LDO pos reg (I-temp) .....	1.19	1.08	.97
897188	LM2937ET-3.3	TO-220	500mA, 3.3V LDO volt reg (I-temp) .....	2.45	1.81	1.32
297810	LM2937ET-5.0	TO-220	5V 500mA LDO regulator .....	1.47	1.35	1.11
837505	LM2940T-5.0/NOPB	TO-220	1.0A, 5V LDO volt reg (I-temp) .....	1.79	1.34	.99
897655	LM2940T-10.0	TO-220	1.0A, 10V LDO volt reg (I-temp) ....	1.31	1.18	1.07
693804	LM2941CT-LB03	TO-220/5	1A LDO adjustable reg (45Vin) .....	.99	.88	.71
904886	LP2980AIMS-5.0	SOP-5	50mA, 5V pwr ultra LDO volt reg ...	.83	.60	.44
898105	LM2991S	TO-263/5	1.0A neg. LDO adj. volt reg (-26Vin)	2.85	2.17	1.99

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## Low Drop-Out Volt. Reg.

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Part No.	Product No.	Pkg/Pins	Description	1	10	100
1729506	LT1084CP	TO-3P	5.0A LDO positive adjustable reg. ....	\$8.85	\$8.30	\$7.90
1729565	LT1084CT	TO-220/3	5.0A LDO positive adjustable reg. ....	7.85	7.31	6.96
1729611	LT1085CM	DDPAK-3	3.0A LDO positive adjustable reg. ....	7.15	6.68	6.36
1729629	LT1085CM-3.3	DDPAK-3	3.3V 3.0A LDO positive reg. ....	7.15	6.68	6.36
1729661	LT1085CT-3.3	TO-220/3	3.3V 3.0A LDO positive reg. ....	6.55	6.12	5.82
1729696	LT1085CT-5	TO-220/3	5V 3.0A LDO positive reg. ....	6.55	6.12	5.82
1729709	LT1085IT	TO-220/3	3.0A LDO positive adj. reg., I-temp ...	8.79	8.23	7.83
1729784	LT1086CM-3.3	DDPAK-3	3.3V 1.5A LDO positive reg. ....	3.99	3.73	3.55
1729805	LT1086CT	TO-220/3	1.5A LDO positive adj. reg. ....	3.75	3.52	3.35
1729813	LT1086CT-12	TO-220/3	12V 1.5A LDO positive reg. ....	3.75	3.52	3.35
1729830	LT1086CT-3.3	TO-220/3	3.3V 1.5A LDO positive reg. ....	3.75	3.52	3.35
1729856	LT1086IM	DDPAK-3	1.5A LDO positive adj. reg., I-temp ...	4.45	4.15	3.95
1730435	LT1117CM-3.3	DDPAK-3	3.3V 800mA LDO positive reg. ....	3.89	3.63	3.46
1730494	LT1117CT	SOT-223	800mA LDO positive adj. reg. ....	3.65	3.41	3.24
1730523	LT1117CT-3.3	SOT-223	3.3V 800mA LDO positive reg. ....	3.65	3.41	3.24
1730540	LT1117CT-5	SOT-223	5V 800mA LDO positive reg. ....	3.65	3.41	3.24
1730558	LT1117IST	SOT-223	800mA LDO pos. adj. reg., I-temp ...	3.79	3.55	3.38
1730574	LT1117IST-3.3	SOT-223	3.3V 800mA LDO pos. reg., I-temp ...	3.79	3.55	3.38
1730654	LT1118CT-2.5	SOT-223	2.5V 800mA LDO source & sink reg. ....	4.75	4.43	4.22
1730873	LT1121CS8	SOIC-8	$\mu$ Pwr LDO reg. w/ shutdown ....	3.05	2.82	2.68
1730902	LT1121CS8-5	SOIC-8	5V $\mu$ pwr LDO source & sink reg. ....	3.05	2.82	2.68
1730929	LT1121CT-3.3	SOT-223	3.3V $\mu$ pwr LDO source & sink reg. ....	3.25	3.06	2.91
1730945	LT1121CT-5	SOT-223	5V $\mu$ pwr LDO source & sink reg. ....	3.25	3.06	2.91
1730961	LT1121IS8-5	SOIC-8	5V $\mu$ pwr LDO source & sink reg., I-temp	3.65	3.41	3.24
1730988	LT1121IST-3.3	SOT-223	3.3V $\mu$ pwr LDO source & sink reg., I-temp	3.89	3.63	3.46
1731171	LT1129CQ-5	DDPAK-5	5V $\mu$ pwr LDO reg. w/ shutdown ....	4.65	4.33	4.12
1731180	LT1129CS8	SOIC-8	$\mu$ Pwr LDO reg. w/ shutdown ....	4.75	4.46	4.24
1731198	LT1129CS8-3.3	SOIC-8	3.3V $\mu$ pwr LDO reg. w/ shutdown ....	4.75	4.46	4.24
1731227	LT1129CS8-5	SOIC-8	5.0V $\mu$ pwr LDO reg. w/ shutdown ....	4.75	4.46	4.24
1731260	LT1129CT-5	SOT-223	5.0V $\mu$ pwr LDO reg. w/ shutdown ....	4.25	3.98	3.79
1731358	LT1129IS8	SOIC-8	$\mu$ Pwr LDO reg. w/ shutdown, I-temp ...	5.65	5.28	5.02
1731382	LT1129IS8-5	SOIC-8	5.0V $\mu$ pwr LDO reg. w/ shutdown, I-temp	5.65	5.28	5.02
1731403	LT1129IST-3.3	SOT-223	3.3V $\mu$ pwr LDO reg. w/ shutdown, I-temp	4.75	4.46	4.24
1731411	LT1129IST-5	SOT-223	5.0V $\mu$ pwr LDO reg. w/ shutdown, I-temp	4.75	4.46	4.24
1732300	LT1175CQ	DDPAK-5	500mA neg. LDO $\mu$ pwr reg. ....	5.85	5.49	5.22
1732318	LT1175CQ-5	DDPAK-5	5V 500mA negative LDO $\mu$ pwr reg. ....	5.85	5.49	5.22
1732334	LT1175CS8	SOIC-8	500mA negative LDO $\mu$ pwr reg. ....	5.45	5.07	4.82
1732351	LT1175CS8-5	SOIC-8	5V 500mA negative LDO $\mu$ pwr reg. ....	5.45	5.07	4.82
1732369	LT1175CT-5	SOT-223	5V 500mA negative LDO $\mu$ pwr reg. ....	4.89	4.57	4.35
1732414	LT1175IS8-5	SOIC-8	5V 500mA neg. LDO $\mu$ pwr reg., I-temp	6.99	6.54	6.22
1732713	LT1185CQ	DDPAK-5	Low drop out reg. ....	6.75	6.33	6.02
1732721	LT1185CT	TO-220/5	Low drop out reg. ....	6.55	6.09	5.80
1737741	LT1521CT-3.3	SOT-223	3.3V 300mA LDO w/ $\mu$ pwr curr. & shdwn	3.35	3.10	2.95
1737768	LT1521CT-5	SOT-223	5.0V 300mA LDO w/ $\mu$ pwr curr. & shdwn	3.35	3.10	2.95
1737784	LT1521IS8	SOIC-8	300mA LDO w/ $\mu$ pwr curr. & shdwn, I-temp	5.05	4.71	4.49
1737821	LT1521IST-3.3	SOT-223	3.3V 300mA LDO w/ $\mu$ pwr curr. & shdwn, I-temp	4.75	4.43	4.22
1737881	LT1529CQ-3.3	DDPAK-5	3.3V 3.0A LDO w/ $\mu$ pwr curr. & shdwn	5.95	5.56	5.29
1737910	LT1529CT-5	TO-220/5	5.0V 3.0A LDO w/ $\mu$ pwr curr. & shdwn	5.45	5.07	4.82
1737952	LT1529IQ-5	DDPAK-5	5.0V 3.0A LDO w/ $\mu$ pwr curr. & shdwn, I-temp	6.75	6.33	6.02
1738189	LT1580CQ	DDPAK-5	7.0A very low dropout reg. ....	9.25	8.65	8.23
1738200	LT1580CR-2.5	DDPAK-7	2.5V 7.0A very low dropout reg. ....	9.55	8.93	8.50
1738357	LT1585CM-3.3	DDPAK-3	3.3V 4.6A LDO fast response pos. reg. ....	7.75	7.24	6.89
1738381	LT1585CT-3.3	TO-220/3	3.3V 4.6A LDO fast response pos. reg. ....	7.15	6.68	6.36
1738429	LT1587CM-1.5	DDPAK-3	1.5V 3.0A LDO fast response GTL+ reg. ....	6.55	6.12	5.82
1738461	LT1587CM-3.3	DDPAK-3	3.3V 3.0A LDO fast response positive reg. ....	6.55	6.09	5.80
1740131	LT1762EMS8	MSOP-8	Adj. 150mA Low noise LDO $\mu$ pwr reg. ....	1.95	1.83	1.74
1740166	LT1762EMS8-3.3	MSOP-8	3.3V 150mA Low noise LDO $\mu$ pwr reg. ....	1.95	1.83	1.74

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## Low Drop-Out Volt. Regulators (Cont.)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1740182	LT1762EMS8-5	MSOP-8	5.0V 150mA Low noise LDO $\mu$ pwr reg. ....	\$1.95	\$1.83	\$1.74
1740191	LT1763CDE	DFN-12	Adj. 500mA low noise LDO $\mu$ pwr reg., I-temp	4.19	3.93	3.74
1740246	LT1763CS8	SOIC-8	Adj. 500mA low noise LDO $\mu$ pwr reg., I-temp	3.45	3.24	3.08
1740254	LT1763CS8-1.5	SOIC-8	1.5V 500mA low noise LDO $\mu$ pwr reg., I-temp	3.45	3.24	3.08
1740271	LT1763CS8-2.5	SOIC-8	2.5V 500mA low noise LDO $\mu$ pwr reg., I-temp	3.45	3.24	3.08
1740289	LT1763CS8-3	SOIC-8	3.0V 500mA low noise LDO $\mu$ pwr reg., I-temp	3.45	3.24	3.08
1740300	LT1763CS8-3.3	SOIC-8	3.3V 500mA low noise LDO $\mu$ pwr reg., I-temp	3.45	3.24	3.08
1740318	LT1763CS8-5	SOIC-8	5.0V 500mA low noise LDO $\mu$ pwr reg., I-temp	3.45	3.24	3.08
1740334	LT1764AEQ	DDPAK-5	Adj. 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740342	LT1764AEQ-1.5	DDPAK-5	1.5V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740369	LT1764AEQ-1.8	DDPAK-5	1.8V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740406	LT1764AEQ-2.5	DDPAK-5	2.5V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740422	LT1764AEQ-3.3	DDPAK-5	3.3V 3A fast trans. resp. low noise LDO, I-temp	7.65	7.16	6.81
1740473	LT1764EQ	DDPAK-5	Adj. 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1740502	LT1764EQ-1.8	DDPAK-5	1.8V 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1740529	LT1764EQ-2.5	DDPAK-5	2.5V 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1740553	LT1764EQ-3.3	DDPAK-5	3.3V 3A fast trans. resp. low noise LDO	7.65	7.16	6.81
1742575	LT1962EMS8	MSOP-8	Adj. 300mA low noise $\mu$ pwr LDO	3.05	2.82	2.68
1742621	LT1962EMS8-3.3	MSOP-8	3.3V 300mA low noise $\mu$ pwr LDO	3.05	2.82	2.68
1742663	LT1963AEQ	DDPAK-5	Adj. 1.5A low noise fast trans. resp. LDO	5.35	5.02	4.78
1742701	LT1963AEQ-1.8	DDPAK-5	1.8V 1.5A low noise fast trans. resp. LDO reg.	5.35	5.02	4.78
1742743	LT1963AEQ-3.3	DDPAK-5	3.3V 1.5A low noise fast trans. resp. LDO reg.	5.35	5.02	4.78
1742760	LT1963AES8	SOIC-8	Adj. 1.5A fast trans. resp. LDO reg.	3.95	3.66	3.48
1742823	LT1963AES8-3.3	SOIC-8	3.3V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742858	LT1963AEST-1.5	SOT-223	1.5V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742874	LT1963AEST-1.8	SOT-223	1.8V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742882	LT1963AEST-2.5	SOT-223	2.5V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1742997	LT1963EQ	DDPAK-5	Adj. 1.5A low noise fast trans. resp. LDO	5.35	5.02	4.78
1743041	LT1963EQ-2.5	DDPAK-5	2.5V 1.5A low noise fast trans. resp. LDO	5.35	5.02	4.78
1743068	LT1963ES8	SOIC-8	Adj. 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1743164	LT1963EST-1.8	SOT-223	1.8V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1743201	LT1963EST-3.3	SOT-223	3.3V 1.5A low noise fast trans. resp. LDO	3.95	3.66	3.48
1743252	LT1963ET-3.3	TO-220/5	3.3V 1.5A low noise fast trans. resp. LDO	4.55	4.22	4.02
1743594	LT3010EMS8E	MSOP-8	Adj. 50mA 3V to 80V LDO $\mu$ pwr linear	3.35	3.14	2.99
1743615	LT3010EMS8E-5	MSOP-8	5V 50mA 3V to 80V LDO $\mu$ pwr linear	3.35	3.14	2.99
1743800	LT3021ES8-1.2	SOIC-8	1.2V 500mA low volt, low dropout linear	4.85	4.52	4.30
1743834	LT3024EDE	DFN-12	Dual 100mA/500mA LDO low noise $\mu$ pwr	5.25	4.92	4.69



## Low Drop-Out Volt. Reg.

For more TI Voltage Regulators  
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





Part No.	Product No.	Pkg/Pins	Description	1	10	100
700470	TPS7801KT	TO-263/5	Ultralow-noise, fast, RF, 1.5A LDO linear reg. ....	★	Call	Call
700488	TPS78625DCO	SOT-223	Ultralow-noise, high-PSRR, 1.5A LDO linear reg. ....	2.69	2.62	2.54
700496	TPS78625KT	TO-263/5	Ultralow-noise, high-PSRR, 1.5A LDO linear reg. ....	★	Call	Call
700517	TPS79201DBVT	SOT-23	Ultralow-noise, high-PSRR, 100mA LDO linear reg. ....	★	Call	Call
700533	TPS79501DCO	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg. ....	2.09	2.03	1.98
700541	TPS79518DCO	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg. ....	★	Call	Call
700550	TPS79525DCO	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg. ....	2.09	2.03	1.98
700568	TPS79533DCO	SOT-223	Ultralow-noise, high-PSRR, 500mA LDO linear reg. ....	★	Call	Call
700576	TPS79601DCO	SOT-223	Ultralow-noise, high-PSRR, 1A LDO linear reg. ....	2.19	2.13	2.07
700584	TPS79601KT	TO-263/5	Ultralow-noise, high-PSRR, 1A LDO linear reg. ....	★	Call	Call
700592	TPS79633DCO	SOT-223	Ultralow-noise, high-PSRR, 1A LDO linear reg. ....	2.19	2.13	2.07
763972	TPS79718DCKT	SC70/5	Ultra-LP 10mA LDO linear reg. w/ pwr good output	1.09	.91	.86

★ Please call or visit our website for minimum order quantity and pricing

Additional Major Brand Voltage Regulators  
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




















## Low Drop-Out Voltage Regulators

Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
299743	LM1084IT-ADJ 	TO-220	5A low drop out adj. pos. volt. reg. ..	\$1.99	\$1.52	\$1.13
299735	LM1084IT-3.3 	TO-220	5A low drop out 3.3V pos. volt. reg. ..	2.95	2.51	1.88
282757	LT1085CT 	TO-220	3A low drop pos volt reg. adj./fixed ...	1.34	1.21	.91
192305	LM1086CT-3.3 	TO-220/3	1.5A low dropout positive reg. (3.3V) ....	1.09	.81	.60
192313	LM1086CT-5.0 	TO-220/3	1.5A low dropout positive reg. (5V) ...	1.49	1.27	.95
251782	LM1117MPX-ADJ 	SOT-223/3	800mA low drop out linear regulator ...	.56	.528	.476
242114	LM1117T-3.3 	TO-220/3	800mA, 3.3V, LDO voltage reg. ....	.66	.63	.57
314326	AP1184K5L 	TO-263/5	4A ultra LDO adj. reg. ....	5.29	3.69	3.29
192495	LM2940CT-12 	TO-220/3	12V LDO reg. (max. 45Vin) .....	1.02	.87	.66
107182	LM2940CT-5 	TO-220/3	5V LDO reg. (max. 45Vin) .....	1.39	1.05	.77
121064	LM2941CT 	TO-220/5	1A LDO adjustable reg. (45Vin) .....	1.19	.99	.76
192524	LM3940IT-3.3 	TO-220/3	1A LDO for 5V to 3.3V .....	1.95	1.46	1.09



## National Semiconductor Voltage Regulators

Part No.	Product No.	Pkg.	Description	1	10	100
898543	LM317LZ/NOPB 	TO-92	Adjustable, 100mA positive volt reg. ....	\$ .35	\$ .274	\$ .235
898800	LM317T/NOPB 	TO-220	Adjustable, 1.5A positive volt reg. ....	1.01	.94	.88
898990	LM320T-5.0	TO-220	-5V, 1.5A negative voltage regulator ...	1.00	.82	.75
838401	LM334M/NOPB 	SOIC-8	Adjustable current source .....	.91	.81	.71
900017	LM340T-5.0	TO-220	5V, 1A positive volt regulator, I-temp ..	1.02	.91	.83
107166	LM2936Z-5 	TO-92	Ultra-low quiescent current 5V reg. ....	2.59	1.93	1.33
902186	LM78L05ACM	SOIC-8	5V, 100mA positive volt regulator .....	.37	.321	.301
902291	LM78L05ACZ	TO-92	5V, 100mA positive volt regulator .....	.36	.328	.311
902442	LM78L15ACZ	TO-92	15V, 100mA positive volt regulator .....	.29	.271	.257
902071	LM7805CT	TO-220	5V, 1A positive voltage regulator .....	.77	.73	.69
840886	LM7808CT/NOPB 	TO-220	8V, 1A positive voltage reg., I-temp ...	1.23	1.09	.95
902127	LM7812CT	TO-220	12V, 1A positive voltage regulator .....	1.05	.90	.85
902805	LM79L05ACZ	TO-92	-5V, 100mA negative voltregulator .....	.39	.373	.359
841256	LM79L15ACM/NOPB 	SOIC-8	-15V, 100mA negative volt regulator ...	.38	.367	.344

## ON Semiconductor Voltage Regulators






























Part No.	Product No.	Pkg/Pins	Description	1	10	100
875991	MC7805ABD2T 	D2PAK	5V, 1A pos. volt reg., I-temp .....	\$ .64	\$ .58	\$ .526
876037	MC7805ACD2TG 	D2PAK	5V, 1A pos. volt reg., C-temp .....	.80	.73	.65
797267	MC7805ACTG 	TO-220/3	5V, 1A pos. volt reg., C-temp .....	.45	.375	.348
876070	MC7805BD2T 	D2PAK	5V, 1A pos. volt reg., I-temp .....	.98	.80	.63
876109	MC7805BT	TO-220	5V, 1A pos. volt reg., I-temp .....	.47	.441	.397
876125	MC7805BTG 	TO-220/3	5V, 1A pos. volt reg., I-temp .....	.31	.255	.236
797283	MC7805CD2TG 	D2PAK	5V, 1A pos. volt reg., C-temp .....	.39	.342	.293
876221	MC7805CT	TO-220	5V, 1A pos. volt reg., I-temp .....	.43	.416	.374
876248	MC7805CTG 	TO-220/3	5V, 1A pos. volt reg., C-temp .....	.32	.272	.256
797304	MC7806ACT	TO-220/3	6V, 1A pos. volt reg., C-temp .....	.54	.432	.324
797347	MC7806BTG 	TO-220/3	6V, 1A pos. volt reg., I-temp .....	*	.253	.216
876281	MC7808ACT 	TO-220/3	8V, 1A pos. volt reg., C-temp .....	.57	.52	.392
876310	MC7808BT 	TO-220/3	8V, 1A pos. volt reg., I-temp .....	.57	.49	.392
797363	MC7808CD2T 	D2PAK	8V, 1A pos. volt reg., C-temp .....	.50	.447	.406
797380	MC7808CTG 	TO-220/3	8V, 1A pos. volt reg., C-temp .....	*	.268	.248
876352	MC7809CT	TO-220/3	9V, 1A pos. volt reg., C-temp .....	.56	.466	.373
797419	MC7812ACD2TG 	D2PAK	12V, 1A pos. volt reg., C-temp .....	.52	.432	.394
797435	MC7812ACTG 	TO-220/3	12V, 1A pos. volt reg., C-temp .....	.31	.254	.235
876408	MC7812CD2T 	D2PAK	12V, 1A pos. volt reg., C-temp .....	.90	.72	.534
876441	MC7812CTG 	TO-220/3	12V, 1A pos. volt reg., C-temp .....	.35	.287	.267
797451	MC7815ACTG 	TO-220/3	15V, 1A pos. volt reg., C-temp .....	.31	.255	.236
876547	MC7815CTG 	TO-220/3	15V, 1A pos. volt reg., C-temp .....	.35	.291	.254
876563	MC7818CT 	TO-220/3	18V, 1A pos. volt reg., C-temp .....	*	.349	.284
797494	MC7824BT 	TO-220/3	24V, 1A pos. volt reg., I-temp .....	*	.352	.293
876643	MC78L05ABP 	TO-92/3	5V, 100mA pos. volt reg., I-temp .....	.50	.407	.314
797507	MC78L05ACDG 	SOIC-8	5V, 100mA pos. volt reg., C-temp .....	*	.369	.333
876715	MC78L05ACP	TO-92/3	5V, 100mA pos. volt reg., C-temp .....	.37	.33	.235
876791	MC78L08ACPG 	TO-92/3	8V, 100mA pos. volt reg., C-temp .....	.38	.317	.23
876811	MC78L09ACD	SOIC-8	9V, 100mA pos. volt reg., C-temp .....	*	.185	.173

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)




## ON Semiconductor Voltage Reg. (Cont.)

For more ON Semi Volt. Reg. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
797515	MC78L12ABDG 	SOIC-8	12V, 100mA pos. volt reg., I-temp .....	\$ .43	\$ .39	\$ .353
797558	MC78L15ABDG 	SOIC-8	15V, 100mA pos. volt reg., I-temp .....	*	.175	.159
876918	MC78L15ACD 	SOIC-8	15V, 100mA pos. volt reg., C-temp .....	*	.34	.304
876942	MC78L15ACP	TO-92/3	15V, 100mA pos. volt reg., C-temp .....	.27	.195	.162
797566	MC78M05CTG 	TO-220/3	5V, 500mA pos. volt reg., C-temp .....	.55	.50	.475
797582	MC78M06CT 	TO-220/3	6V, 500mA pos. volt reg., C-temp .....	*	.30	.25
877005	MC78M08CT 	TO-220/3	8V, 500mA pos. volt reg., C-temp .....	.54	.46	.43
797620	MC78M12BT 	TO-220/3	12V, 500mA pos. volt reg., I-temp .....	.60	.531	.401
797646	MC78M12CTG 	TO-220/3	12V, 500mA pos. volt reg., C-temp .....	.55	.50	.45
797697	MC78M15BTG 	TO-220/3	15V, 500mA pos. volt reg., I-temp .....	.61	.547	.49
797718	MC78M15CTG 	TO-220/3	15V, 500mA pos. volt reg., C-temp .....	*	.301	.265
797751	MC78M20CTG 	TO-220/3	20V, 500mA pos. volt reg., C-temp .....	*	.227	.193
877064	MC78M24CT 	TO-220/3	24V, 500mA pos. volt reg., C-temp .....	.54	.386	.324
797777	MC7905.2CTG 	TO-220/3	-5.2V, 1A neg. volt reg., C-temp .....	.55	.50	.46
797814	MC7905ACTG 	TO-220/3	-5V, 1A neg. volt reg., C-temp .....	.57	.49	.392
877136	MC7905BT 	TO-220/3	-5V, 1A neg. volt reg., I-temp .....	*	.252	.229
877179	MC7905CTG 	TO-220/3	-5V, 1A neg. volt reg., C-temp .....	.56	.439	.32
877208	MC7906CT 	TO-220/3	-6V, 1A neg. volt reg., C-temp .....	*	.30	.25
877216	MC7908CT	TO-220/3	-8V, 1A neg. volt reg., C-temp .....	.40	.338	.25
797857	MC7912BTG 	TO-220/3	-12V, 1A neg. volt reg., I-temp .....	*	.44	.42
877275	MC7912CTG 	TO-220/3	-12V, 1A neg. volt reg., C-temp .....	.56	.456	.36
797873	MC7915ACTG 	TO-220/3	-15V, 1A neg. volt reg., C-temp .....	*	.275	.254
877312	MC7915BT 	TO-220/3	-15V, 1A neg. volt reg., I-temp .....	*	.252	.229
797890	MC7915CTG 	TO-220/3	-15V, 1A neg. volt reg., C-temp .....	.35	.287	.268
797911	MC7924CT 	TO-220/3	-24V, 1A neg. volt reg., C-temp .....	.54	.46	.347
877371	MC79L05ACDG 	SOIC-8	-5V 100mA, neg. volt reg., C-temp .....	*	.12	.10
877451	MC79L05ACPG	TO-92/3	-5V, 100mA neg. volt reg., I-temp .....	.33	.272	.235
877478	MC79L12ABD 	SOIC-8	-12V, 100mA neg. volt reg., I-temp .....	*	.185	.166
797945	MC79L15ACDG 	SOIC-8	-15V, 100mA neg. volt reg., C-temp .....	*	.16	.15
877558	MC79M05CT 	TO-220/3	-5V, 500mA neg. volt reg., C-temp .....	*	.30	.25
877574	MC79M12CT 	TO-220/3	-12V, 500mA neg. volt reg., C-temp .....	*	.30	.25
797961	MC79M15CTG 	TO-220/3	-15V, 500mA neg. volt reg., C-temp .....	*	.223	.186
871105	MC33063AP1	DIP-8	1.5A Step-up/down inverting switch reg. ...	.95	.79	.63



## Fairchild Voltage Regulators

For more Fairchild Volt. Reg. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
786138	LM7805CT_NL 	TO-220	5V, 1A pos. voltage reg., I-temp .....	\$ .64	\$ .54	\$ .40
973831	LM78L05ACZ_NL 	TO-92	5V, 100mA pos. voltage reg., I-temp ...	.24	.216	.194
871658	MC78T12CT 	TO-220	12V, 3A pos. voltage reg., I-temp .....	1.13	.93	.75

## ST Voltage Regulators

For more ST Micro Volt. Reg. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
924570	L7805ACV	TO-220	5V 1A pos. voltage regulator .....	\$ .71	\$ .56	\$ .42
924633	L7805CV 	TO-220	5V 1.5A pos. voltage regulator .....	.59	.47	.35
889428	L78L05ACZ 	TO-92	5V 100mA pos. voltage regulator .....	.53	.423	.318
889305	L7812CV	TO-220	12V 1.5A pos. voltage regulator .....	.59	.47	.35
889495	L7905CV	TO-220	5V 1.5A neg. voltage regulator .....	.64	.51	.38

## TEXAS INSTRUMENTS Voltage Regulators

For more TI Volt. Regulators visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
764203	UA78L05ACLPR	TO-92	5V, 100mA pos. voltage reg., I-temp ..	\$ .21	\$ .176	\$ .167
764254	UA78L08ACLPR	TO-92	8V 100mA pos. voltage reg., I-temp ....	.43	.392	.314

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# Voltage & Switching Regulators, Power Drivers & Modules

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TSSOP	SSOP	TO-220	DIP	SOIC	MSOP	TO-5	TO-3	TO-92

## Voltage Regulators

				* Minimum order 10 pieces		
Part No.	Cross Ref.	Pkg/Pins	Description	1	10	100
23499	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C) .....	\$5.89	\$5.34	\$4.11
192268	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V) .....	1.75	1.25	.95
192276	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V) .....	1.99	1.77	1.31
23544	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V) .....	2.10	1.91	1.77
23552	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V) .....	.28	.264	.224
23579	LM317T	TO-220/3	1.5A adj. pos. reg. (1.2V-37V) .....	.45	.39	.34
23667	LM323K	TO-3/2	5V 3A positive regulator .....	2.89	2.75	2.29
296841	LM337LZ	TO-92	3-terminal adj. neg. voltage reg. ....	.79	.59	.43
23819	LM337T	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V) .....	.59	.55	.44
23835	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V) .....	5.69	4.47	3.74
192284	LM338T	TO-220/3	5A adjustable regulator .....	2.39	1.78	1.19
23931	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V) ...	4.75	4.25	3.19
23940	LM350T	TO-220/3	3 amp. adj. power regulator .....	1.09	.89	.69
278248	TL431AIP	TO-92	Adjustable precision shunt regulator ....	.41	.34	.252
24467	LM723CN	DIP-14	Voltage regulator (2V-37V) .....	.46	.405	.388
301719	LM723H	TO-5	2V - 37V, 150mA adj. voltage reg. ....	3.69	2.83	2.12
298071	MAX755CSA	SOIC-8	-5V/adj., neg. output, invert. curr. mode PWM reg. ....	3.55	3.35	3.20
192399	LM2576HVT-12	TO-220/5	Switcher 3A step down V-reg., high Vin range .....	4.85	4.13	3.71
51246	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5) .....	5.15	3.95	2.95
51262	7805T	TO-220/3	5V 1A pos. voltage reg. (LM340T-5) .....	.35	.32	.28
51182	7815CZ	TO-92	5V 100mA pos. voltage regulator .....	.29	.26	.25
193754	78L05ACM	SOIC-8	5V 100mA pos. voltage regulator .....	.22	.21	.19
192233	78M05	TO-220/3	5V 500mA pos. voltage regulator .....	.22	.19	.17
51297	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6) .....	.30	.25	.21
51300	7808CT	TO-220/3	8V 1A pos. voltage reg. (LM340T-8) ....	.56	.42	.316
192225	78L09ACZ	TO-92	9V 100mA pos. voltage regulator .....	.20	.173	.13
51318	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12) ..	2.19	1.79	1.59
51334	7812T	TO-220/3	12V 1A pos. voltage reg. (LM340T-12) ..	.35	.32	.24
51203	78L12CZ	TO-92	12V 100mA pos. voltage regulator .....	*	.131	.098
192241	78M12CT	TO-220/3	12V 500mA pos. voltage regulator .....	.22	.20	.18
51369	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15) ..	1.43	1.22	.92
51377	7815T	TO-220/3	15V 1A pos. voltage reg. (LM340T-15) ..	.28	.25	.22
194634	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18) ..	.54	.42	.312
51414	7824T	TO-220/3	24V 1A pos. voltage reg. (LM340T-24) ..	.44	.39	.31
51457	7905T	TO-220/3	-5V 1A neg. voltage reg. (LM320T-5) ..	.42	.38	.36
51422	79L05ACP	TO-92	-5V 100mA neg. voltage regulator .....	.30	.264	.198
51481	7912CT	TO-220/3	-12V 1A neg. voltage reg. (LM320T-12) ..	.31	.27	.21
51431	79L12CZ	TO-92	-12V 100mA neg. voltage regulator .....	.23	.21	.16
51502	7915CT	TO-220/3	-15V 1A neg. voltage reg. (LM320T-15) ..	.32	.27	.22
194749	79L15ACZ	TO-92	-15V 100mA neg. voltage regulator .....	.41	.349	.262
316945	MC34063AP1	DIP-8	1.5A Step-up/down inverting switch reg. ....	.66	.56	.421

\*10 pieces included in Linear kit, pg 38 \*\*20 pcs. included in Linear kit, pg 38

## Power Drivers & Modules

				* Minimum order 10 pieces		
Part No.	Product No.	Pkg/Pins	Description	1	10	100
1727877	LT1026CN8	DIP-8	Voltage converter .....	\$3.75	\$3.52	\$3.35
1745531	LTC1044ACS8	SOIC-8	12V CMOS volt converter, C-temp .....	4.39	4.11	3.91
1731841	LT1161CSW	SOIC-20	Quad protected hi-side MOSFET driver .....	6.45	6.05	5.76
1747190	LTC1255CS8	SOIC-8	Dual 24V high-side MOSFET driver .....	5.65	5.28	5.02
1747405	LTC1263CS8	SOIC-8	12V, 60mA flash memory prog. supply .....	6.95	5.66	5.38
1750170	LTC1477CS8	SOIC-8	Single protected hi-side switches .....	6.25	5.84	5.56
1757451	LTC3401EMS	MSOP-10	1A 3MHz ppwr sync. boost convtr .....	4.65	4.36	4.15
1757478	LTC3402EMS	MSOP-10	2A 3MHz ppwr sync. boost convtr .....	6.25	5.82	5.54
1744221	LT3471EDD	DFN-10	Dual 1.3A 1.2MHz boost/inverter .....	4.99	4.69	4.46
1758673	LTC3780EG	SSOP-24	Hi-eff., sync. 4-sw. buck-boost contr. ...	9.99	9.34	8.89
1758841	LTC3828EUH	QFN-32	Dual 2-phase stp-dwn contr. w/ tracking ..	9.99	9.34	8.89

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Switching Regulators

For more LTC Switching Reg. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1745573	LTC1044CN8	DIP-8	Switched-capacitor volt converter ....	\$3.09	\$2.89	\$2.75
1728360	LT1054CN8	DIP-8	Switched-cap. volt converter w/ reg. ...	4.89	4.57	4.35
1728386	LT1054CS8	SOIC-8	Switched-cap. volt converter w/ reg. ...	5.15	4.78	4.55
1728394	LT1054CSW	SOIC-16	Switched-cap. volt converter w/ reg. ...	6.05	5.63	5.35
1728431	LT1054IS8	SOIC-8	Switched-cap. volt converter w/ reg. ...	8.65	8.09	7.69
1728626	LT1070CT	TO-220/5	5A high efficiency switching reg. ....	10.65	9.96	9.47
1728634	LT1070HVCT	TO-220/5	5A high efficiency switching reg. ....	13.79	12.89	12.27
1728706	LT1072CT	TO-220/5	1.25A high efficiency switching reg. ...	5.65	5.28	5.02
1728781	LT1074CT	TO-220/7	5A Step-down switching regulator ....	10.79	10.08	9.59
1728790	LT1074HVCT	TO-220/5	5A Step-down switching regulator ....	13.89	13.01	12.38
1728802	LT1074HVCT7	TO-220/7	5A Step-down switching regulator ....	15.39	14.41	13.71
1728888	LT1074IT#06	TO-220/5	5A Step-down switching regulator ....	12.55	11.71	11.15
1728917	LT1076CQ	DDPAK-5	2A step down switching regulator .....	7.55	7.03	6.69
1728968	LT1076CRA	DDPAK-7	2A step down switching regulator .....	8.15	7.62	7.25
1729021	LT1076HVCT	TO-220/5	2A step down switching regulator .....	11.39	10.66	10.14
1746373	LTC1144CN8	DIP-8	Switched cap. volt conv. w/ shdwn ...	4.55	4.22	4.02
1746381	LTC1144CS8	SOIC-8	Switched cap. volt conv. w/ shdwn ...	4.65	4.36	4.15
1746402	LTC1144IS8	SOIC-8	Switched cap. volt conv. w/ shdwn, I-temp	5.35	4.99	4.75
1731956	LT1170CQ	DDPAK-5	5A 100KHz hi eff. switching reg. ....	11.39	10.66	10.14
1731981	LT1170CT	TO-220/5	5A 100KHz hi eff. switching reg. ....	10.65	9.96	9.47
1732001	LT1170HVCT	TO-220/5	5A 100KHz hi eff. switching reg. ....	13.79	12.89	12.27
1732043	LT1171CQ	DDPAK-5	2.5A 100KHz hi eff. switching reg. ....	9.39	8.79	8.36
1732078	LT1171CT	TO-220/5	2.5A 100KHz hi eff. switching reg. ....	8.65	8.09	7.69
1732140	LT1172CN8	DIP-8	1.25A 100KHz hi eff. switching reg. ...	4.39	4.11	3.91
1732158	LT1172CQ	DDPAK-5	1.25A 100KHz hi eff. switching reg. ...	6.39	5.98	5.69
1732174	LT1172CS8	SOIC-8	1.25A 100KHz hi eff. switching reg. ...	5.39	5.04	4.79
1732203	LT1172CT	TO-220/5	1.25A 100KHz hi eff. switching reg. ...	5.65	5.28	5.02
1732246	LT1172IS8	SOIC-8	1.25A 100KHz hi eff. switching reg., I-temp	7.05	6.57	6.25
1732473	LT1176CSW	SOIC-20	1A step down switching regulator .....	8.15	7.62	7.25
1733871	LT1270ACT	TO-220/5	8A high eff. switching reg. ....	15.79	14.76	14.05
1733880	LT1270CT	TO-220/5	10A high eff. switching reg. ....	10.65	9.96	9.47
1734938	LT1370CR	DDPAK-7	500KHz hi eff. 6A switching reg., C-temp	11.15	10.41	9.90
1735009	LT1370IR	DDPAK-7	500KHz hi eff. 6A switching reg., I-temp	13.39	12.51	11.91
1735033	LT1371CR	DDPAK-7	500KHz hi eff. 3A switching reg., I-temp	9.65	9.00	8.56
1735068	LT1371IR	DDPAK-7	500KHz hi eff. 3A switching reg., I-temp	11.45	10.69	10.17
1735092	LT1372CS8	SOIC-8	500KHz&1MHz hi eff. 1.5A swtc. reg., C-temp	6.75	6.33	6.02
1735121	LT1372IS8	SOIC-8	500KHz&1MHz hi eff. 1.5A swtc. reg., I-temp	8.15	7.60	7.23
1735148	LT1373CS8	SOIC-8	250KHz low sup. curr. hi eff. 1.5A swtc. reg.	6.75	6.33	6.02
1735228	LT1374CR	DDPAK-7	4.5A 500KHz step-dwn swtc. reg. ....	8.25	7.74	7.36
1735359	LT1374HVCR	DDPAK-7	4.5A 500KHz step-dwn, C-temp .....	9.25	8.65	8.23
1735404	LT1374HVIR	DDPAK-7	4.5A 500KHz step-dwn, I-temp .....	10.55	9.84	9.37
1735421	LT1374IR	DDPAK-7	4.5A 500KHz step-dwn I-temp .....	9.45	8.86	8.43
1735455	LT1374IS8	SOIC-8	4.5A 500KHz step-dwn, I-temp .....	8.65	8.09	7.69
1735551	LT1376CS8	SOIC-8	1.5A 500KHz step-dwn, C-temp .....	5.75	5.35	5.09
1735594	LT1376HVCS8	SOIC-8	1.5A 500KHz step-dwn, C-temp .....	6.35	5.91	5.62
1735623	LT1376HVIS8	SOIC-8	1.5A 500KHz step-dwn swtc. reg., I-temp	7.59	7.10	6.76
1735682	LT1377CS8	SOIC-8	500KHz & 1MHz hi eff. 1.5A swtc. reg. ....	7.89	7.38	7.03
1749401	LTC1435CS	SOIC-16	Hi eff. low noise sync. step-dwn swtc. reg.	7.39	6.91	6.57
1737274	LT1506CR	DDPAK-7	4.5A 500KHz step-dwn swtc. reg., C-temp	8.25	7.74	7.36
1737311	LT1506CS8	SOIC-8	4.5A 500KHz step-dwn swtc. reg., C-temp	7.55	7.03	6.69
1737338	LT1506CS-3.3	SOIC-8	4.5A 500KHz step-dwn swtc. reg., C-temp	7.55	7.03	6.69
1737426	LT1507CS8	SOIC-8	500KHz monolithic buck mode swtc. reg. ....	6.75	6.33	6.02
1737434	LT1507CS8-3.3	SOIC-8	500KHz monolithic buck mode swtc. reg. ....	6.75	6.33	6.02
1750604	LTC1530CS8	SOIC-8	Hi pwr sync. switching reg. controller ..	5.05	4.71	4.49
1751826	LTC1624CS8	SOIC-8	Hi eff. N-ch swtc. reg. controller, C-temp	6.45	6.05	5.76
1751842	LTC1624IS8	SOIC-8	Hi eff. N-ch swtc. reg. controller, I-temp	8.25	7.74	7.36
1751851	LTC1625CGN	SSOP-16	No RSENSE™ curr. mode sync. stp-dwn, C-temp	8.75	8.16	7.76

# Voltage Regulators, Hot Swap Controllers, PLLs & Audio Amps

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## Switching Regulators (Cont.)

For more LTC Switching Reg. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1751877	LTC1625CS	SOIC-16	No RSENSE™ curr. mode sync. stp-dwn, C-temp.	\$8.19	\$7.67	\$7.29
1751906	LTC1625IS	SOIC-16	No RSENSE™ curr. mode sync. stp-dwn, I-temp	10.15	9.49	9.03
1751949	LTC1628CG-PG	SSOP-28	Hi eff. 2-phase sync. step-dwn swtch. reg.	8.19	7.67	7.29
1752036	LTC1629CG-PG	SSOP-28	Poly-phase hi-eff. sync. stp-dwn swtch. reg.	10.99	10.29	9.79
1752335	LTC1649CS	SOIC-16	3.3V input hi pwr step-dwn swtch. reg. contr.	6.69	6.26	5.96
1739472	LT1676CS	SOIC-8	Hi-eff. step-dwn swtch. reg., C-temp	4.89	4.57	4.35
1739499	LT1676IS	SOIC-8	Hi-eff. step-dwn swtch. reg., I-temp	5.79	5.42	5.15
1753194	LTC1702ACGN	SSOP-24	Dual 550kHz sync. 2-ph. swtch. reg. contr.	8.45	7.90	7.52
1753602	LTC1735CF	TSSOP-20	Hi eff. sync. step-dwn switching reg.	5.89	5.50	5.23
1753629	LTC1735CGN	SSOP-16	Hi eff. sync. step-dwn switching reg.	5.75	5.35	5.09
1753645	LTC1735CS	SOIC-16	Hi eff. sync. step-dwn swtch. reg., C-temp	5.49	5.14	4.89
1753725	LTC1735IS	SOIC-16	Hi eff. sync. step-dwn swtch. reg., I-temp	7.35	6.89	6.56
1740676	LT1765ES	SOIC-8	Mono 3A 1.25MHz step-dwn swtch. reg.	8.35	7.78	7.40
1740705	LT1766EGN	SSOP-16	5.5-60V 1.5A 200kHz stp-dwn, I-temp	6.49	6.08	5.78
1740748	LT1767EMS	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	5.19	4.85	4.62
1740764	LT1767EMS-3.3	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	5.19	4.85	4.62
1740781	LT1767EMS-5	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	5.19	4.85	4.62
1740801	LT1767EMS-8	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	6.55	6.13	5.84
1740861	LT1767EMS-3.3	MSOP-8	Mono 1.5A 1.25MHz stp-dwn, I-temp	6.55	6.13	5.84
1754058	LTC1775IS	SOIC-16	Hi pwr No RSENSE™ curr. mode sync. stp-dwn	10.29	9.63	9.17
1740941	LT1776CS	SOIC-8	Hi-eff. step-dwn swtch. reg., C-temp	4.75	4.43	4.22
1740967	LT1776IS	SOIC-8	Hi-eff. step-dwn swtch. reg., I-temp	5.45	5.07	4.82
1754841	LTC1877EMS	MSOP-8	Hi eff. mono sync. step-down reg.	5.15	4.83	4.59
1754867	LTC1878EMS	MSOP-8	Hi eff. mono sync. step-down reg.	4.59	4.29	4.08
1742196	LT1940EFE	TSSOP-16	Dual mono 1.4A 1.1MHz step-dwn	7.95	7.44	7.08
1742508	LT1959CR	DDPAK-7	4.5A 500kHz step-down, C-temp	8.45	7.89	7.51
1742524	LT1959CS	SOIC-8	4.5A 500kHz step-down, C-temp	7.79	7.30	6.95
1742532	LT1959IR	DDPAK-7	4.5A 500kHz step-down, I-temp	9.59	8.99	8.55
1742559	LT1961EMS	MSOP-8	1.5A 1.25MHz step-up, I-temp	3.05	2.83	2.69
1743341	LT1976EFE	TSSOP-16	Hi volt 1.5A 200kHz step-dwn, I-temp	8.59	8.03	7.64
1743973	LT3430EFE	TSSOP-16	Hi volt 3A 200kHz/100kHz step-dwn	10.65	9.94	9.46
1743981	LT3430IFE	TSSOP-16	Hi volt 3A 200kHz/100kHz step-dwn	12.25	11.43	10.88
1757646	LTC3412AEUF	QFN-16	3A 4MHz monolithic sync. step-down	7.45	6.93	6.60
1757662	LTC3412EFE	TSSOP-16	3A 4MHz monolithic sync. step-down	8.49	7.93	7.55
1757697	LTC3414EFE	TSSOP-20	4A 4MHz monolithic sync. step-down	9.15	8.54	8.12
1757777	LTC3418EUHF	QFN-38	8A 4MHz monolithic sync. step-down	12.29	11.52	10.96
1758340	LTC3728EG	SSOP-28	Dual 550kHz 2-ph. sync. step-dwn	8.89	8.33	7.92



## Voltage & Current Ref.

For more LTC Volt. & Curr. Ref. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1726840	LT1004CS-1.2	SOIC-8	µPwr voltage reference	\$2.89	\$2.70	\$2.57
1726882	LT1004CZ-1.2	TO-92/3	µPwr voltage reference	2.39	2.23	2.12
1726903	LT1004IS-2.5	SOIC-8	µPwr voltage reference, I-temp	5.59	5.38	5.17
1727033	LT1009CZ	TO-92/3	2.5V reference	2.39	2.23	2.12
1727068	LT1009S	SOIC-8	2.5V reference	3.15	2.93	2.79
1727447	LT1019ACN-10	DIP-8	Precision reference	11.29	10.55	10.04
1727543	LT1019CS-2.5	SOIC-8	Precision reference	8.39	7.85	7.47
1727551	LT1019CS-4.5	SOIC-8	Precision reference	8.39	7.85	7.47
1727586	LT1019CS-5	SOIC-8	Precision reference	8.39	7.85	7.47
1727594	LT1019IN-5	DIP-8	Precision reference, I-temp	8.65	8.09	7.69
1727640	LT1021BCN-5	DIP-8	Precision reference	9.65	9.03	8.59
1727703	LT1021CCN-5	DIP-8	Precision reference	6.39	5.98	5.69
1727746	LT1021DCN-5	DIP-8	Precision reference	4.69	4.53	4.37
1727771	LT1021DCS-5	SOIC-8	Precision reference	5.89	5.51	5.25
1727906	LT1027BCN-5	DIP-8	Precision 5V reference	9.15	8.83	8.50
1727914	LT1027BCN-5	DIP-8	Precision 5V reference	9.15	8.85	8.75
1727990	LT1027ECS-5	SOIC-8	Precision 5V reference	4.59	4.43	4.27
1728036	LT1029ACZ	TO-92/3	5V bandgap reference	4.55	4.22	4.02
1728052	LT1029CZ	TO-92/3	5V bandgap reference	2.75	2.58	2.45
1733329	LT1236ACS-10	SOIC-8	Precision reference	5.45	5.07	4.82
1733337	LT1236ACS-5	SOIC-8	Precision reference	6.55	6.12	5.82
1733361	LT1236AIS-10	SOIC-8	Precision reference, I-temp	6.45	6.05	5.76
1733409	LT1236BCS-5	SOIC-8	Precision reference	3.85	3.59	3.42

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

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## Voltage & Curr. Ref. (Cont.)

For more LTC Volt. & Curr. Ref. visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg/Pins	Description	1	10	100
1736061	LT1460ACS-2.5	SOIC-8	µPwr precision reference	\$5.95	\$5.56	\$5.29
1736212	LT1460EIS-5	SOIC-8	µPwr precision reference, I-temp	4.29	4.01	3.82
1736271	LT1460GCZ-2.5	TO-92/3	µPwr precision reference	2.99	2.84	2.69
1736298	LT1460GIZ-10	TO-92/3	µPwr precision reference, I-temp	3.05	2.82	2.68
1736415	LT1461ACS-2.5	SOIC-8	µPwr precision LDO volt reference	11.55	10.80	10.28
1736618	LT1461CCS-5	SOIC-8	µPwr precision LDO volt ref., C-temp	2.99	2.84	2.69
1738787	LT1634ACS-1.25	SOIC-8	µPwr precision shunt volt reference	7.65	7.17	6.83
1738795	LT1634ACS-2.5	SOIC-8	µPwr precision shunt volt reference	7.65	7.17	6.83
1738859	LT1634AIS-2.5	SOIC-8	µPwr precision shunt volt ref., I-temp	8.55	8.02	7.63



## Hot Swap Controllers

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Part No.	Product No.	Pkg/Pins	Description	1	10	100
1749232	LTC1422CS	SOIC-8	Hot swap controller, C-temp	\$5.25	\$4.92	\$4.69
1749267	LTC1422IS	SOIC-8	Hot swap controller, I-temp	6.05	5.63	5.35
1739288	LT1640LIS	SOIC-8	Negative voltage hot swap controller	3.85	3.59	3.42
1739341	LT1641CS	SOIC-8	Positive hi volt hot swap controller	4.15	3.87	3.68
1739317	LT1641-2CS	SOIC-8	Positive hi volt hot swap controller	4.15	3.87	3.68
1752132	LTC1643ALCGN	SSOP-16	PCI bus hot swap controller	7.55	7.03	6.69
1752183	LTC1645CS	SOIC-14	Dual channel hot swap contr/pwr sequencer	5.95	5.56	5.29
1752247	LTC1646CGN	SSOP-16	Compact PCI dual hot swap controller	6.99	6.54	6.22
1759289	LTC4211CS	SOIC-8	With multifunction current control	3.45	3.24	3.08
1744546	LT4250LCS	SOIC-8	Negative 48V hot swap controller	4.29	4.01	3.82
1759502	LTC4252A-2CMS	MSOP-10	Negative volt hot swap controller	5.19	4.85	4.62
1759684	LTC4300-1CMS	MSOP-8	Hot swappable 2-wire bus buffers, C-temp	3.55	3.31	3.15
1759705	LTC4300-1IMS	MSOP-8	Hot swappable 2-wire bus buffers, I-temp	4.05	3.80	3.62
1759748	LTC4300A-1CMS	MSOP-8	Hot swappable 2-wire bus buffers, C-temp	3.55	3.31	3.15
1759772	LTC4300A-2CMS	MSOP-8	Hot swappable 2-wire buffers, C-temp	3.55	3.31	3.15
1759801	LTC4300A-3CMS	MSOP-8	Level shifting, 2-wire bus buffer w/ enable	3.55	3.31	3.15



## PLLs

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Part No.	Product No.	Pkg.	Description	1	10	100
843180	LMX2306TMNOPB	TSSOP-16	Low power freq. syn. for RF personal comm	\$2.45	\$1.86	\$1.66
904456	LMX2316TM	TSSOP-16	Low power freq. syn. for RF personal comm	2.49	1.90	1.69
843219	LMX2326TMNOPB	TSSOP-16	Low power freq. syn. for RF personal comm	2.95	2.23	2.21
843251	LMX2330LTM	TSSOP-20	Dual freq. syn. for RF personal comm	2.95	2.25	2.09
843278	LMX2332LTM	TSSOP-20	Dual freq. syn. for RF personal comm	2.34	1.95	1.80
843340	LMX2350TM	TSSOP-24	Fractional N RF/integer N IF dual LP freq syn	5.95	4.49	4.21
843374	LMX2352TM	TSSOP-24	Fractional N RF/integer N IF dual LP freq syn	5.35	4.07	3.81
843411	LMX2354TM	TSSOP-24	Fractional N RF/integer N IF dual LP freq syn	3.95	2.99	2.79



## Audio Amp

Part No.	Product No.	Pkg.	Description	1	10	100
316873	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	\$0.68	\$0.53	\$0.393



## Audio Amp

Part No.	Product No.	Pkg.	Description	1	10	100
24942	MC1350P	DIP-8	Video IF amp. (12V operation)	\$1.95	\$1.85	\$1.75



## Audio Amps

Part No.	Product No.	Pkg.	Description	1	10	100
32897	TDA2002V	TO-220/5	8-watt audio high power amp.	\$4.50	\$4.02	\$3.60
315344	TDA2040V	PWAT-5	20W hi-fi audio power amp.	2.05	1.87	1.69



## Audio Amps

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Part No.	Product No.	Pkg.	Description	1	5	50
828545	OPA134PA	DIP-8	High performance audio op amp.	\$2.39	\$2.19	\$2.03
275830	OPA2134PA	DIP-8	High-performance audio op amp.	2.29	1.85	1.77
275821	OPA2134UA	SOIC-8	High-performance audio op amp.	2.29	1.85	1.81

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# Amps, Comparators & Buffers

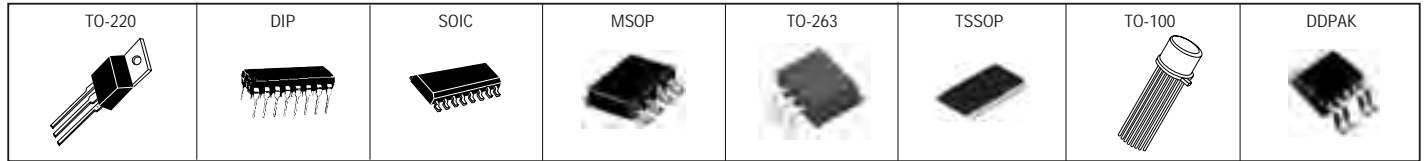


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National Semiconductor

## Audio Amps

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Part No.	Product No.	Pkg.	Description	1	10	100
24037	LM380N	DIP-14	2-watt audio power amp.	\$1.31	\$ .98	\$ .73
24088	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096	LM384N	DIP-14	5-watt audio amp.	.92	.79	.76
839797	LM386M-1/NOBP	SOIC-8	Low voltage audio power amp.	1.09	.77	.57
839826	LM386N-1/NOBP	DIP-8	Low voltage audio power amp.	1.09	.79	.57
841361	LM833M/NOBP	SOIC-8	Dual audio operational amp.	1.09	.79	.57
841395	LM833N/NOBP	DIP-8	Dual audio operational amp.	.95	.69	.57
295718	LM1203N	DIP-28	RGB video amp.	4.55	3.87	2.90
23270	LM1875T	TO-220/5	20-watt power audio amplifier	2.34	2.30	1.88
835761	LM1876T	TO-220/15	Dual 20W audio power amp w/ mute & standby modes	5.15	4.67	4.26
835770	LM1876TF	TO-220/15	Dual 20W audio power amp w/ mute & standby modes	5.59	4.96	4.43
835788	LM1877M-9/NOBP	DIP-14	Dual audio power amp.	1.75	1.27	.93
23288	LM1877N-9	DIP-14	Dual power audio amplifier	1.13	1.02	.93
107140	LM1881N	DIP-8	Video synchronous separator	2.85	2.19	1.66
243547	LM1894N	DIP-14	DNR noise reduction	3.05	2.80	2.10
835817	LM1973N	DIP-20	μPOT™ 3-ch 76dB audio attenuator w/ mute	4.29	3.57	3.35
252013	LM3875T	TO-220/11	56W high perf. audio power amp.	5.19	4.40	4.00
320670	LM3886TF	TO-220/11	68W high perf. audio amp., isol. pkg.	6.35	4.80	4.25
192516	LM3886T	TO-220/11	68W high perf. audio amp.	6.09	4.65	3.65
302201	LM4752T	TO-220	Stereo 11W audio power amp.	2.55	1.92	1.42
840270	LM4752TS	TO-263/7	Stereo 1W audio power amp.	2.79	2.10	1.57
901634	LM4765T	TO-220/15	Dual 30W audio power amp w/ mute & standby modes	5.15	3.93	3.55
840122	LM4835MTE	TSSOP-28	2W audio power amp w/ DC vol control & selectable gain	3.49	2.67	2.50
901554	LM4861M	SOIC-8	1.1W audio power amp. w/ shutdown mode	1.49	1.12	.87
840181	LM4862M/NOBP	SOIC-8	675mW audio power amp. w/ shutdown mode	1.54	1.13	.94
840211	LM4865M	SOIC-8	750mW audio pwr amp. w/ DC vol control/headphone sw	1.61	1.25	1.04
901597	LM4880M	SOIC-8	Dual 250mW audio power amp. w/ shutdown mode	1.45	1.09	.80
840245	LM4890M	SOIC-8	1W audio power amp.	1.49	1.10	.91

## Audio Amps

Part No.	Cross Ref.	Pkg.	Description	1	10	100
24125	LM386N-1	DIP-8	Low voltage audio amp. 250mW/6V	\$ .62	\$ .46	\$ .38
24133	LM386N-3	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59	.49

\*10 pieces included in Linear kit, pg 38



## Instrumentation Amps

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Part No.	Product No.	Pkg/Pins	Description	1	10	100
1729952	LT1101CN8	DIP-8	Prec., μpwr singl supply, C-temp	\$8.75	\$8.20	\$7.80
1729961	LT1101IN8	DIP-8	Precision, μpwr singl supply, I-temp	10.89	10.20	9.70
1745506	LTC1043CN	DIP-18	Dual prec. instrument. swic. cap. building block	5.15	4.81	4.58
1745514	LTC1043CSW	SOIC-18	Dual prec. instrument. swic. cap. building block	5.65	5.28	5.02
1731905	LT1167ACS8	SOIC-8	Sngl resistr gain prog. prec., C-temp	9.69	9.07	8.63
1731921	LT1167AIS8	SOIC-8	Sngl resistr gain prog. prec., I-temp	11.15	10.41	9.90
1755501	LTC2053IMS8	MSOP-8	Prec. r-to-r zero-drift resistor prog., I-temp	6.45	6.05	5.76



## Instrumentation Amps

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Part No.	Product No.	Pkg.	Description	1	5	50
900682	INA101AM	TO-100/10	High-accuracy instrumentation amp	\$42.99	\$39.94	\$37.63
900720	INA101HP	DIP-14	High-accuracy instrumentation amp	20.55	19.09	17.98
900818	INA110KP	DIP-16	Fast-settling FET input instrumentation amp	18.19	16.91	15.93
900965	INA114AU	SOIC-16	Precision instrumentation amp	10.95	10.15	9.56
825900	INA126P	DIP-8	Micropower instrumentation amp (single/dual)	3.45	3.21	3.02
901466	INA163UA	SOIC-14	Low-noise, low-distortion instrumentation amp	6.49	6.04	5.69
906558	PGA202KP	DIP-14	Digitally controlled prog gain instrumentation amp	20.15	18.72	17.64
906591	PGA203KP	DIP-14	Digitally controlled prog gain instrumentation amp	20.15	18.72	17.64
826013	INA2126UA	SOIC-16	Micropower instrumentation amp (single & dual)	4.25	3.91	3.68
901546	INA2128UA	SOIC-16	Dual, LP instrumentation amp	12.15	11.26	10.61

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Comparators

NEW

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Part No.	Product No.	Pkg/Pins	Description	1	10	100
1727084	LT1011ACN8	DIP-8	Voltage comparator	\$5.25	\$4.92	\$4.69
1727092	LT1011AIS8	SOIC-8	Voltage comparator, I-temp	5.35	4.99	4.75
1727121	LT1011CN8	DIP-8	Voltage comparator	2.39	2.23	2.12
1727316	LT1016CN8	DIP-8	Ultrafast precision 10ns comp., C-temp	5.55	5.16	4.91
1727375	LT1017CS8	SOIC-8	μPwr dual comparator, C-temp	4.05	3.76	3.58
1727383	LT1017IN8	DIP-8	μPwr dual comparator, I-temp	4.55	4.22	4.02
1727391	LT1017IS8	SOIC-8	μPwr dual comparator, I-temp	4.89	4.57	4.35
1727404	LT1018CN8	DIP-8	μPwr dual comparator	3.39	3.17	3.01
1727421	LT1018CS8	SOIC-8	μPwr dual comparator	3.75	3.52	3.35
1730401	LT1116CS8	SOIC-8	12ns singl supply ground-sensing comp.	6.65	6.22	5.92
1749558	LTC1440CS8	SOIC-8	Ultra LP singl/dual comparator w/ reference	2.79	2.61	2.48
1749671	LTC1444CS	SOIC-16	Ultra LP quad comparators w/ reference	4.55	4.22	4.02
1739691	LT1713CMS8	MSOP-8	Sngl 7ns LP 3V/4.5V/±5V rail-to-rail comp.	3.55	3.31	3.15
1739712	LT1714CGN	SSOP-16	Dual 7ns LP 3V/4.5V/±5V rail-to-rail comp.	5.65	5.28	5.02
1739755	LT1715IMS	MSOP-10	4ns, 150MHz dual comp. w/ independent I/O sup.	6.75	6.33	6.02
1739827	LT1719IS8	SOIC-8	4.5ns singl/dual sup. 3/5V comp., r-to-r output	3.85	3.59	3.42
1739843	LT1720CMS8	MSOP-8	Dual 4.5ns singl sup. 3/5V comp., r-to-r outputs, C-temp	5.75	5.35	5.09
1739886	LT1720IMS8	MSOP-8	Dual 4.5ns singl sup. 3/5V comp., r-to-r outputs, I-temp	6.69	6.26	5.96
1739894	LT1720IS8	SOIC-8	Dual 4.5ns singl sup. 3/5V comp., r-to-r outputs, I-temp	5.55	5.21	4.95



## Comparators

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Part No.	Product No.	Pkg.	Description	1	10	100
900535	LM361M	SOIC-14	Hi-speed differential comparator	\$2.99	\$2.21	\$1.63
901191	LM393M/NOBP	SOIC-8	Low-pwr, low-offset volt dual comp, C-temp	* .408	* .375	
840000	LM393N/NOBP	DIP-8	Low-pwr, low-offset volt dual comp, C-temp	* .329	* .302	



## Comparators

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Part No.	Product No.	Pkg.	Description	1	10	50
902522	LM311DR	SOIC-8	Differential comparators w/ strobes	* \$1.59	* \$1.59	* \$1.59
902688	LM339AD	SOIC-14	Quad differential comparators	* .167	* .156	
826742	LM339N	DIP-14	Quad differential comparators	* .441	* .353	

## Other Comparators

Part No.	Cross Ref.	Pkg.	Description	1	10	100
282087	LM139J	CDIP-14	Low pwr, low offset volt quad comp.	\$3.25	\$2.76	\$2.07
23528	LM311N	DIP-8	Voltage comparator	.35	.25	.19
143888	LM339AN	DIP-14	Low power quad comparator	.25	.23	.19
23851	LM339N	DIP-8	Quad comparator	.21	.19	.165
120900	LM392N	DIP-8	Low power op amp./volt comp.	1.42	1.20	.90
212177	LM393AN	DIP-8	Low pwr low offset volt dual comp.	.24	.20	.162
24281	LM393N	DIP-8	Dual comparator	.20	.17	.128

\*10 pieces included in Linear kit, pg 38

\*\*20 pieces included in Linear kit, pg 38

## Buffer

Part No.	Cross Ref.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer	\$13.75	\$11.48	\$8.91

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Part No.	Product No.	Pkg.	Description	1	10	100
1806031	AMP01FX	DIP-18	Low noise, prec. instrumentation amp	\$17.79	\$15.42	\$14.85
1806102	AMP03GPZ	DIP-8	Precision, utility gain differential amp	4.95	4.28	4.12
1806111	AMP04FS	SOIC-8	Prec. singl sup. instrumentation amp	8.85	7.69	7.40
1808909	SMP04ESZ	SOIC-16	CMOS quad sample & hold amp	10.09	8.74	8.41
1776978	AD202KN	DIP-38	Low cost miniature isolation amp	58.35	50.62	48.73
1777022	AD210AN	DIP-38	Prec. wide bandwidth 3-port isolation amp	89.35	77.50	74.61
1777031	AD210BN	DIP-38	Prec. wide bandwidth 3-port isolation amp	107.59	93.32	89.84
1778068	AD524AD	DIP-16	Prec. Instrumentation amp, C-temp	19.55	16.96	16.32
1780635	AD595AD	TO-116	Mono thermocouple w/ cold junc. comp.	21.69	18.82	18.11
1780651	AD595CQ	DIP-14	Mono thermocouple w/ cold junc. comp., error ±1	20.65	17.92	17.25
1780740	AD603AR	SOIC-8	Low-noise, 90MHz variable gain amp	8.85	7.67	7.39
1780791	AD604ARZ	SOIC-24	Dual ultralow noise variable gain amp	25.65	22.24	21.41
1780838	AD606JRZ	SOIC-16	50MHz, 80dB demodulating logarithmic amp	47.39	41.11	39.57
1780862	AD620ANZ	DIP-8	Low cost, LP instrumentation amp	6.29	5.44	5.24
1780897	AD620BR	SOIC-8	Low cost, LP instrumentation amp	9.09	7.87	7.57
1780926	AD621AR	SOIC-8	Low drift, LP instrumentation amp	7.35	6.35	6.11
1780985	AD623ANZ	DIP-8	Sngl supply r-to-r instrument amp	3.45	3.00	2.89
1781013	AD623BR	SOIC-8	Sngl supply r-to-r instrument amp	5.35	4.64	4.47
1781021	AD624AD	DIP-16	Prec. instrumentation amp, C-temp	23.49	20.38	19.62
1781030	AD624BD	DIP-16	Prec. instrumentation amp, C-temp	38.49	33.38	32.14
1781072	AD625JNZ	DIP-16	Prog. gain instrumentation amp	13.75	11.91	11.46
1781179	AD629AR	SOIC-8	Hh-common mode volt diff. amp	5.75	4.96	4.77
1787204	AD781JN	DIP-8	Complete 700ns sample & hold amp	11.75	10.18	9.80
1787554	AD783JR	SOIC-8	Complete very hi-spd sample & hold amp	21.35	18.51	17.82
1791650	AD823AN	DIP-8	Dual 16MHz r-to-r FET input amp	4.79	4.14	3.99
1791684	AD823ARZ	SOIC-8	Dual 16MHz r-to-r FET input amp	4.79	4.14	3.99
1791764	AD825ARZ	SOIC-8	Low-cost gen purp hi-spd JFET amp	3.19	2.78	2.67
1791772	AD825ARZ-16	SOIC-16	Low-cost gen purp hi-spd JFET amp	4.79	4.14	3.99
1792097	AD830JR	SOIC-8	High speed, video difference amp	5.15	4.43	4.27
1808950	SSM2018TPZ	DIP-16	Trimless voltage controlled amp	6.75	5.83	5.61
1808968	SSM2019BNZ	DIP-8	Self contained audio preamplifier	3.89	3.37	3.24
1809039	SSM2164PZ	DIP-16	Low-cost quad volt controlled amp	5.55	4.82	4.64
1789429	AD8001ARZ	SOIC-8	8-MHz, 50mW curr. feedback amp	6.15	5.33	5.13
1789550	AD8009ARZ	SOIC-8	1GHz, 5,500V/μs low distortion amp	3.55	3.08	2.97
1789779	AD8021ARMZ	MSOP-8	Low-noise, hi-spd amp for 16-bit systems	2.89	2.50	2.41
1789787	AD8021ARZ	SOIC-8	Low-noise, hi-spd amp for 16-bit systems	2.89	2.50	2.41
1789824	AD8022ARZ	SOIC-8	Dual hi-spd., low-noise op amp	4.85	4.18	4.03
1790032	AD8032ARM	MSOP-8	2.7V, 800μA, 80MHz r-to-r I/O amp	3.75	3.25	3.13
1790059	AD8032ARZ	SOIC-8	2.7V, 800μA, 80MHz r-to-r I/O amp	3.75	3.25	3.13
1790219	AD8041ARZ	SOIC-8	160MHz rail-to-rail amp w/ disable	3.29	2.86	2.75
1790235	AD8044ARZ-14	SOIC-14	Quad 150MHz rail-to-rail amp	7.59	6.58	6.34
1790323	AD8052ARMZ	MSOP-8	Low-cost, hi-spd rail-to-rail amp	3.09	2.68	2.58
1790518	AD8057ARZ	SOIC-8	Sngl low-cost, hi perf. volt feedbk 325MHz	1.65	1.43	1.37
1790534	AD8058ARZ	SOIC-8	Dual low-cost, hi perf. volt feedbk 325MHz	3.09	2.68	2.58
1791641	AD8230YRZ	SOIC-8	16V r-to-r, zero drift prec instrument amp	6.65	5.77	5.55
1792062	AD8307ARZ	SOIC-8	Low-cost DC-500MHz, 92dB logarithmic amp	12.99	11.25	10.83
1792126	AD8310ARMZ	MSOP-8	Fast, volt-out DC-440MHz, 95dB logarithmic	9.39	8.13	7.83
1793381	AD8531ARZ	SOIC-8	Sngl low-cost, 250mA output sngl sup. amp	.61	.525	.505
1793436	AD8532ARZ	SOIC-8	Dual low-cost, 250mA output sngl sup. amp	.78	.68	.66
1793461	AD8534ARZ	SOIC-14	Quad low-cost 250mA output sngl sup. amp	1.13	.98	.95
1793495	AD8541ARZ	SOIC-8	Sngl gen purp CMOS rail-to-rail amp	.61	.525	.505



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## High Performance Amps


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Part No.	Product No.	Pkg/Pins	Description	1	10	100
1726655	LF398S8	SOIC-8	Precision sample and hold amplifier	\$3.55	\$3.31	\$3.15
1726815	LT1001CS8	SOIC-8	Precision op amp	3.65	3.41	3.24
1726938	LT1006S8	SOIC-8	Precision single supply op amp	3.49	3.28	3.12
1726954	LT1007CN8	DIP-8	Low noise, hi-speed precision op amp	3.65	3.41	3.24
1726997	LT1008CN8	DIP-8	pA input curr., μvolt offset, low noise op amp	5.55	5.16	4.91
1727156	LT1012CN8	DIP-8	pA input curr., μvolt offset, low noise op amp, I-temp	4.99	4.69	4.46
1727172	LT1012S8	SOIC-8	pA input curr., μvolt offset, low noise op amp, C-temp	6.05	5.63	5.35
1727201	LT1013ACN8	DIP-8	Dual precision op amp	7.15	6.68	6.36
1727228	LT1013DN8	DIP-8	Dual precision op amp	3.49	3.28	3.12
1727244	LT1013IS8	SOIC-8	Dual precision op amp	7.55	7.03	6.69
1727252	LT1014ACN	DIP-14	Quad precision op amp	12.79	11.95	11.37
1727295	LT1014DSW	SOIC-16	Quad precision op amp	7.39	6.92	6.58
1728010	LT1028CS8	SOIC-8	Ultralow noise hi-speed op amp, I-temp	8.65	8.09	7.69
1728271	LT1037CS8	SOIC-8	Low noise, hi-speed precision op amp	4.15	3.87	3.68
1745688	LTC1050CN8	DIP-8	Precision zero-drift op amp w/ internal cap	4.05	3.80	3.62
1745709	LTC1050CS8	SOIC-8	Precision zero-drift op amp w/ internal cap	5.05	4.71	4.49
1745717	LTC1051CSW	SOIC-16	Dual prec. zero-drift op amp w/ int. cap	9.05	8.44	8.03
1745750	LTC1053CSW	SOIC-18	Quad prec. zero-drift op amp w/ int. cap	16.15	15.12	14.38
1728474	LT1055CN8	DIP-8	Precision, hi-speed JFET input op amp	3.39	3.17	3.01
1728491	LT1056CN8	DIP-8	Precision, hi-speed JFET input op amp	3.39	3.17	3.01
1728511	LT1056S8	SOIC-8	Precision, hi-speed JFET input op amp	4.05	3.76	3.58
1728546	LT1057CN8	DIP-8	Dual JFET input, prec. hi-speed op amp	4.55	4.22	4.02
1728589	LT1058CN	DIP-14	Quad JFET input, prec. hi-speed op amp	7.65	7.15	6.80
1729194	LT1077S8	SOIC-8	μpwr, single supply, precision op amp	3.65	3.41	3.24
1729207	LT1078CN8	DIP-8	μpwr, sngl supply, dual prec. op amp	4.99	4.69	4.46
1729231	LT1078IS8	SOIC-8	μpwr, sngl sup., dual prec. op amp, I-temp	8.45	7.88	7.49
1729240	LT1078S8	SOIC-8	μpwr, sngl sup., dual prec. op amp	6.55	6.12	5.82
1729282	LT1079CN	DIP-14	μpwr, sngl sup., quad prec. op amp	6.29	5.87	5.58
1729291	LT1079IN	DIP-14	μpwr, sngl sup., quad prec. op amp, I-temp	7.79	7.27	6.92
1729311	LT1079SW	SOIC-16	μpwr, sngl sup., quad prec. op amp, I-temp	8.15	7.62	7.25
1729901	LT1097CN8	DIP-8	Low power precision op amp	3.09	2.89	2.75
1730275	LT1112CN8	DIP-8	Dual low pwr prec. pA input op amp, I-temp	4.39	4.11	3.91
1730304	LT1113CS8	SOIC-8	Dual low noise prec., JFET input op amp, I-temp	6.55	6.09	5.80
1730355	LT1114S	SOIC-16	Quad low pwr prec., JFET input op amp, I-temp	8.89	8.33	7.92
1746541	LTC1150CN8	DIP-8	±15V zero-drift op amp w/ internal capacitor	6.95	6.47	6.16
1746576	LTC1150CS8	SOIC-8	±15V zero-drift op amp w/ internal capacitor	8.15	7.60	7.23
1746584	LTC1151CN8	DIP-8	Dual ±15V zero-drift op amp	10.75	10.06	9.57
1746605	LTC1151CSW	SOIC-16	Dual ±15V zero-drift op amp	12.55	11.74	11.17
1732836	LT1206CR	DDPAK-7	250mA, 60MHz curr. feedback amp	8.15	7.62	7.25
1732861	LT1206CS8	SOIC-8	250mA, 60MHz curr. feedback amp	7.25	6.79	6.46
1733249	LT1209CS8	SOIC-8	Dual 100MHz curr. feedback amp	7.79	7.27	6.92
1733791	LT1256CS	SOIC-14	40MHz video fader & DC gain contrd amp	11.65	10.90	10.37
1733821	LT1260CS	SOIC-16	Triple 130MHz curr. feedbk amp w/ shdwn	4.89	4.57	4.35
1734621	LT1357CS8	SOIC-8	25MHz, 600V/μs op amp	5.15	4.81	4.58
1734663	LT1358CS8	SOIC-8	Dual 25MHz, 600V/μs op amp	8.25	7.74	7.36
1734701	LT1359CS	SOIC-16	Quad 25MHz, 600V/μs op amp	12.79	11.95	11.37
1734743	LT1360CS8	SOIC-8	50MHz, 800V/μs op amp	4.65	4.33	4.12
1734794	LT1362CS	SOIC-16	Quad 50MHz, 800V/μs op amp	11.75	11.01	10.48
1734831	LT1364CS8	SOIC-8	Dual 70MHz, 1000V/μs op amp	7.25	6.75	6.42
1735885	LT1413S8	SOIC-8	Snge supply dual precision op amp	4.05	3.76	3.58
1736829	LT1468CS8	SOIC-8	90MHz, 22V/μs 16-bit accurate op amp	5.05	4.71	4.49
1736853	LT1469CS8	SOIC-8	Dual 90MHz, 22V/μs 16-bit accurate op amp	8.79	8.23	7.83
1736984	LT1490CS8	SOIC-8	Dual μpwr rail-to-rail I/O op amp	3.95	3.66	3.48
1737004	LT1490IS8	SOIC-8	Dual μpwr rail-to-rail I/O op amp	4.45	4.15	3.95
1737071	LT1492CS8	SOIC-8	Dual 5MHz, 3V/μs LP sngl sup. prec. op amp	6.09	5.70	5.42
1739149	LT1638CS8	SOIC-8	Dual 1.2MHz, 0.4V/μs μpwr r-to-r I/O op amp, I-temp	3.95	3.66	3.48
1739190	LT1639IS	SOIC-14	Quad 1.2MHz, 0.4V/μs μpwr r-to-r I/O op amp, I-temp	7.35	6.89	6.56
1741708	LT1806CS8	SOIC-8	325MHz, sngl r-to-r I/O low dist/noise prec. op amp	3.69	3.45	3.28
1743316	LT1970CFE	TSSOP-20	500mA pwr op amp w/ adj. prec. curr. limit	9.09	8.51	8.10
1743391	LT1990CS8	SOIC-8	±250V input range G=1, 1, 10, μpwr diff. amp	2.49	2.32	2.21
1755392	LTC2051HVC8	SOIC-8	Dual zero-drift op amp	4.55	4.22	4.02

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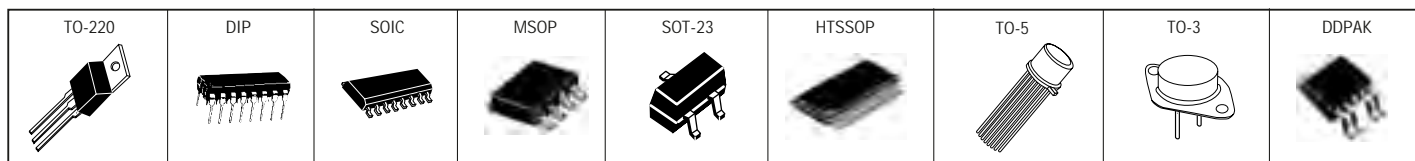
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Part No.	Product No.	Pkg/Pins	Description	1	10	100
1746630	LTC1152CS8	SOIC-8	Rail-to-rail I/O zero-drift op amp	\$6.55	\$6.12	\$5.82
1734874	LT1366CS8	SOIC-8	Dual precision rail-to-rail I/O op amp	6.75	6.33	6.02
1734903	LT1368CS8	SOIC-8	Dual precision rail-to-rail I/O op amp	6.75	6.33	6.02
1736861	LT1490ACMS8	MSOP-8	Dual over-the-top pwr r-to-r I/O op amp	3.69	3.45	3.28
1736917	LT1490ACS8	SOIC-8	Dual over-the-top pwr r-to-r I/O op amp	3.25	3.03	2.88
1737160	LT1495CS8	SOIC-8	1.5µA max. dual over-the-top prec. r-to-r I/O	4.95	4.64	4.42
1737240	LT1498CS8	SOIC-8	10MHz, 6V/µs dual r-to-r I/O prec. C-load	5.49	5.14	4.89
1737258	LT1499CS8	SOIC-14	10MHz, 6V/µs quad r-to-r I/O prec. C-load	9.75	9.14	8.70
1738736	LT1630CS8	SOIC-8	30MHz, 10V/µs dual r-to-r I/O prec. op amp	5.45	5.07	4.82
1739042	LT1636CS8	SOIC-8	Over-the-top pwr r-to-r I/O op amp	2.65	2.46	2.35
1739165	LT1639CS8	SOIC-14	1.2MHz 0.4V/µs over-the-top pwr r-to-r I/O	6.39	5.98	5.69
1739536	LT1677CS8	SOIC-8	Low noise r-to-r precision op amp	3.95	3.66	3.48
1741644	LT1801CMS8	MSOP-8	Dual 80MHz 25V/µs LP r-to-r I/O prec. op amp	3.69	3.45	3.28
1741652	LT1801CS8	SOIC-8	Dual 80MHz 25V/µs LP r-to-r I/O prec. op amp	3.55	3.31	3.15
1741783	LT1807IMS8	MSOP-8	325MHz dual r-to-r I/O low noise/dist. prec.	6.69	6.26	5.96
1741935	LT1881CS8	SOIC-8	Dual r-to-r output pA input prec. op amp	4.95	4.64	4.42
1741986	LT1884CS8	SOIC-8	Dual r-to-r output pA input prec. op amp	4.95	4.64	4.42
1745021	LT6200IS8	SOIC-8	Sngl 165MHz r-to-r I/O 0.95nV low noise op amp	4.89	4.57	4.35
1745098	LT6203CS8	SOIC-8	Dual 100MHz r-to-r I/O ultralow 1.9nV LP op amp	5.15	4.78	4.55
1760511	LTC6241IS8	SOIC-8	Dual 18MHz low noise r-to-r output CMOS op amp	3.05	2.82	2.68



## Op Amp

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Part No.	Product No.	Pkg.	Description	1	10	100
311132	AD811AN	DIP-8	High performance video op amp	\$6.55	\$6.45	\$6.34



## Op Amps

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Part No.	Product No.	Pkg.	Description	1	10	100
239222	LTC1001CN8	DIP-8	Precision op amp	\$2.39	\$1.95	\$1.52
300193	LTC1050CN8	DIP-8	Precision zero drift w/ internal cap	3.99	2.73	2.04
1731041	LT1122CS8	SOIC-8	Fast settling, JFET input op amp, I-temp	5.75	5.39	5.13

## Stay Out of the Loop!

As kids, most of us probably played the telephone game. In this game, one kid would whisper something into another kid's ear, that kid would whisper it into the next kid's ear and so on. Eventually the secret phrase reached the last kid, who would then blurt out what he heard. More often than not, it wasn't very close to the original statement and all the kids would have a great laugh.

In analog circuit design, each component contributes some distortion to the signal, just as each kid changed what was said. The difference though, is that sometimes we create ground loops in our circuits, and that can have the same effect as multiple people distracting each kid who is listening. In the kid's game, it's funny; in our world, the consequences are very frustrating.

You know it is best to keep your lead lengths to a minimum. You know single-point grounds reduce ground loops. Just do it and you'll have one less thing to debug!

**Practical Practices**  
Money Saving Tips for the Engineer

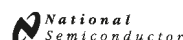


## MAXIM Op Amps

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Part No.	Product No.	Pkg.	Description	1	10	100
804666	ICL7611BCPA	DIP-8	1.4MHz low-power CMOS op amp	\$3.35	\$3.06	\$2.79
804682	ICL7621DCSA	SOIC-8	Dual low-power op amp	2.75	2.13	1.87
804703	ICL7652CWE	SOIC-16	Chopper stabilized op amp	11.39	10.61	9.94
811567	MAX421CWE	SOIC-16	±15V chopper stabilized op amp	★	Call	Call
811866	MAX4326ESA+	SOIC-8	LP rail-to-rail I/O op amp	1.89	1.54	1.36

★ Please call or visit our website for minimum order quantity and pricing



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Part No.	Product No.	Pkg.	Description	1	10	100
120723	LM12CLK	TO-3/4	80W op amp	\$17.05	\$16.10	\$15.30
899247	LM324AN/NOPB	SOIC-14	Low power quad op amp	.58	.527	.479
838233	LM324AN/NOPB	DIP-14	Low power quad op amp	.64	.57	.52
838284	LM324N/NOPB	DIP-14	Low power quad op amp	.64	.57	.52
833854	LF347N/NOPB	DIP-14	Wide bandwidth quad JFET input op amp	1.32	1.19	1.08
839332	LM358AN/NOPB	DIP-8	Low power dual op amp, C-temp	.99	.74	.53
835500	LF411CN/NOPB	DIP-8	Low-offset, low-drift JFET input op amp	.77	.72	.68
835569	LF444CN/NOPB	DIP-14	Quad low power JFET input op amp	1.18	1.06	.97
840763	LM741CN/NOPB	DIP-8	General purpose op amp	.82	.60	.43
835702	LM1458M/NOPB	DIP-8	Dual op amp	1.05	.74	.54
302068	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	4.35	3.70	3.61
301903	LM6171BIN	DIP-8	Hi speed, LP low distortion volt feedback	2.35	2.08	1.93
301874	LM6181IN	DIP-8	100mA, 100MHz current feedback	2.19	1.69	1.54
126893	LMC6482AIM	DIP-8	CMOS dual r-r input/output, lower VOS	1.89	1.43	1.07
301356	LMC6484AIN	DIP-14	CMOS quad r-r I/O op amp., lower VOS	2.99	2.09	1.82



## Op Amps

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Part No.	Product No.	Pkg.	Description	1	10	100
275805	OPA27GP	DIP-8	Ultra-low noise precision op amp	\$2.39	\$2.14	\$1.89
275784	OPA27GU	SOIC-8	Ultra-low noise precision op amp	2.89	2.39	2.26
759682	TL064ACN	DIP-14	Low power JFET input op amp	.67	.60	.52
759762	TL072ACD	SOIC-8	Low noise JFET input op amp	.73	.67	.62
1063935	TL074CDE4	SOIC-14	Low noise JFET input op amp	.55	.49	.43
760034	TL082CDR	SOIC-8	JFET input op amp	.63	.47	.353
901651	ISO124P	DIP-8	Precision isolation amp	13.75	13.05	12.40
902792	LM348D	SOIC-14	Quad op amp	*	.177	.166
901811	LF353DR	SOIC-8	JFET input dual op amp	*	.172	.161
902821	LM358AD	SOIC-8	Dual op amp	*	.174	.163
905977	OPA551FAKTWT	DDPAK-7	High voltage, high current op amp	*	5.91	5.54
830522	UA741CP	DIP-8	Gen. purp. op amp	*	.122	.115
903429	MC1458D	SOIC-8	Dual gen. purp. op amp	*	.135	.126
903509	MC1458P	DIP-8	Dual gen. purp. op amp	*	.135	.126
823525	TLC2272AIP	DIP-8	Advanced LinCMOS® rail-to-rail op amp	1.79	1.63	1.52
761598	TLV2381IDBVT	SOT-23/5	pWp rail-to-rail input & output op amp	*	1.49	1.41
908246	RC4558DR	SOIC-8	Dual gen. purp. op amp	*	.451	.36
904026	NE5534AP	DIP-8	Low noise op amplifier	.65	.59	.541

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## Op Amps

Part No.	Cross Ref.	Pkg.	Description	1	10	100
27852	OP07CP	DIP-8	Ultra-low offset voltage op amp	\$.61	\$.59	\$.56
252988	OP07DP	DIP-8	Very low offset single bipolar op amp	.74	.63	.473
23106	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp	2.10	1.72	1.36
120715	LM10CN	DIP-8	Op amp and voltage reference	2.45	1.90	1.43
115300	OP27EP	DIP-8	Low noise precision op amp	4.39	3.57	2.67
115318	OP27GP	DIP-8	Low noise prec op amp (-40° to 80°C)	2.09	1.69	1.27
33187	TL071CP	DIP-8	Low noise JFET op amp.	.39	.332	.249
213073	TL072ACP	DIP-8	Low noise JFET input op amp.	.68	.516	.372
33195	TL072CP	DIP-8	Low noise JFET dual op amp.	.32	.30	.288
33216	TL074CN	DIP-14	Low noise JFET quad op amp.	.58	.516	.41
213057	TL081ACP	DIP-8	JFET input op amp, low offset w/ control	.51	.43	.32
33232	TL081CP	DIP-8	JFET input op amp., offset control	.27	.252	.223
214076	TL082ACP	DIP-8	JFET input op amp., low offset	.41	.384	.348
33241	TL082CP	DIP-8	JFET input dual op amp.	.53	.40	.30
214084	TL084CN	DIP-14	JFET input op amp.	.41	.384	.324
33267	TL084CN	DIP-14	JFET input quad op amp.	.43	.40	.37
280241	TLC277CP	DIP-8	Prec. dual op amp, low offset	1.65	1.35	.98
212151	LM301AN	DIP-8	Operational amplifier	.40	.30	.29
245673	LM308AH	TO-5/8	Precision op amplifier	3.95	3.36	2.52
23464	LM308N	DIP-8	Precision op amplifier	6.59	5.60	4.20
23608	LM318N	DIP-8	Precision high speed op amplifier	.71	.65	.58
212169	LM324AN	DIP-14	Low power quad op amp, impr. offset	.35	.30	.25
23683	LM324N	DIP-14	Low power quad op amplifier	.28	.24	.21
22904	LF347N	DIP-14	Quad JFET input op amp (wide band)	.46	.374	.284
23915	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.29	.216	.168
22912	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
22939	LF353N	DIP-8	Dual BIFET (comp w/ TL082CP)	.48	.437	.402
22971	LF356N	DIP-8	JFET input op amplifier (wide band)	.95	.81	.59
22998	LF357N	DIP-8	JFET input op amp (wide band decomp.)	2.55	2.30	1.72
120862	LM358AN	DIP-8	Low power dual (improved 358N)	.34	.29	.25
23966	LM358N	DIP-8	Low power dual op amplifier	.24	.21	.18
23018	LF411CN	DIP-8	Low offset drift JFET input op amp	1.35	1.00	.75
23026	LF412CN	DIP-8	Low offset drift JFET input dual	1.24	.92	.68
106681	LF442CN	DIP-8	Dual low power JFET input op amp	1.35	1.00	.75
119992	LF444CN	DIP-14	Quad low pwr JFET input op amp	.99	.91	.82
143976	LMC660CN	DIP-14	CMOS quad operational amplifier	1.35	1.20	1.13
120926	LM675T	TO-220/5	Power op amplifier	4.85	4.05	4.01
24521	LM741CH	TO-5/8	Op amplifier	3.25	2.90	2.61
24539	LM741CN	DIP-8	Op amplifier	.29	.25	.19
24563	LM747CN	DIP-14	Dual 741 op amplifier	4.19	3.85	3.39
239169	LT1013CP	DIP-8	Dual precision op amplifier	1.16	.94	.71
239177	LT1014DN	DIP-14	Quad precision op amplifier	3.29	2.99	2.89
23131	LM1458N	DIP-8	Dual op amplifier	.36	.33	.25
12116	CA3080E	DIP-8	Op transconductance amp. (100135)	3.54	3.18	2.86
12183	CA3130E	DIP-8	CMOS op amplifier	.81	.72	.69
12204	CA3140E	DIP-8	Bi-MOS op amplifier	.51	.47	.42
24168	LM3900N	DIP-14	Quad amplifier	.77	.65	.53
29356	RC4136N	DIP-14	Quad op amp. (XR4136)	.82	.76	.57
251125	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp	.33	.30	.27
252970	NE5532AP	DIP-8	Dual lower noise op amplifier	.50	.45	.39
27385	NE5532N	DIP-8	Dual low noise op amplifier	.66	.50	.38
27406	NE5534	DIP-8	Low noise op amplifier	.78	.66	.54
192532	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.20	.88	.64
277704	MC33202P	DIP-8	Low voltage r-r op amp.	.83	.71	.59
251061	MC34072P	DIP-8	Single supply 3V-44V op amp.	1.11	.88	.66

\*10 pcs./ \*\*20 pcs. in Linear cabinet kit, pg 38  Blue Part No. = Limited Quantity Available

## Linear Series

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Part No.	Product No.	Pkg.	Description	1	10	100
287785	AD581KH	TO-5/3	10V volt ref hi prec 10mV tolerance	\$9.75	\$8.85	\$7.71
115174	AD620AN	DIP-14	Low-cost instrument amplifier	12.65	11.60	8.70
115182	AD633JN	DIP-8	Low-cost analog multiplier	7.75	6.97	6.28
288163	AD7501KN	DIP-16	8-channel analog multiplexer	12.69	10.77	10.17

## Linear Series

**NEW**

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Part No.	Product No.	Pkg.	Description	1	5	50
875747	ICM7556IPD	DIP-14	Dual general purpose timer, I-temp	\$.89	\$.81	\$.76

## Linear Series

**NEW**

For more Maxim Linear  
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Part No.	Product No.	Pkg.	Description	1	10	100
810177	MAX359CWE+	SOIC-16	Fault protected analog multiplexer	\$9.99	\$8.10	\$7.05

## Linear Series

**NEW**

For more National Linear  
[visit www.jameco.com](http://www.jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
838372	LM331N/NOBP	DIP-8	Precision volt-to-freq. conv.r., C-temp	\$2.79	\$2.13	\$1.62
903197	LM555CM/NOBP	SOIC-8	CMOS timer, C-temp	1.25	.97	.67
840608	LM555CN/NOBP	DIP-8	Timer	1.19	.89	.65
901917	LM556CN	DIP-14	Dual Timer	.96	.71	.58
900252	LM3524DM	SOIC-16	Regulating pulse width modulator	.94	.86	.80

## Linear Series

**NEW**

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[visit www.jameco.com](http://www.jameco.com)

Part No.	Product No.	Pkg.	Description	1	10	100
918399	SA602AD/01	SOIC-8	Dble balanced mixer & oscillator, I-temp	\$1.95	\$1.79	\$1.65
917193	ICM7555CD/01	SOIC-8	General purpose CMOS timer, C-temp	.53	.47	.372

## Linear Series

Part No.	Product No.	Pkg.	Description	1	10	100
25021	MC14411P	DIP-24	Bit rate frequency generator	\$4.95	\$4.79	\$4.62
25064	MC14490P	DIP-16	Hex contact bounce eliminator	6.25	5.63	5.03
118586	MC145151P	DIP-28	Parallel input PLL freq synthesizer	6.15	5.20	4.10

## Linear Series

**NEW**

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Part No.	Product No.	Pkg.	Description	1	10	100
890091	NE555N	DIP-8	Gen. purp. Single bipolar timer	\$.21	\$.186	\$.167
890787	ULN2804A	DIP-18	8 darlington array w/ common emitters	.64	.60	.58

## Linear Series

**NEW**



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Part No.	Product No.	Pkg.	Description	1	10	100
904051	NE555D	SOIC-8	Precision timer	\$.31	\$.284	\$.235
828414	NE555DG4	SOIC-8	Precision timer	.20	.142	.133
904085	NE555P	DIP-8	Precision timer	.51	.441	.353
761301	TLC555IP	DIP-8	LinCMOS* timer	.94	.71	.53
904114	NE556N	DIP-14	Dual precision timer	.53	.47	.353
760683	TL594CN	DIP-16	Pulse width modulation control circuit	.82	.62	.46
700672	ULQ2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.81	.69	.56
700613	ULN2004AD	SOIC-16	Hi-volt/curr. darl. transistor array	.63	.466	.304
700630	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.63	.49	.353
700648	ULN2803ADW	SOIC-18	Hi-volt/curr. darl. transistor array	.74	.62	.50
700664	ULN2803AN	DIP-18	Hi-volt/curr. darl. transistor array	.51	.525	.509
909409	SG3524N	DIP-16	Regulating pulse width modulator	.82	.69	.55
700429	TPS54612PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.29	6.00
700437	TPS54613PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.30	5.90
700445	TPS54614PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.30	5.90
700453	TPS54616PWP	HTSSOP-28	3-6V input, 6A output synch buck PWM switcher	6.49	6.30	5.90
758663	SN75468N	DIP-16	Darlington transistor array	.74	.62	.49

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## Linear Series

Part No.	Product No.	Pkg.	Description	1	10	100
674291	DG201BDY	SOP-16	CMOS quad SPST analog switch	\$1.19	\$1.07	\$1.00
674304	DG201HSDY	SOP-16	CMOS quad SPST analog switch	3.69	3.31	2.94
674321	DG211BDY	SOP-16	CMOS quad SPST analog switch	1.59	1.44	1.28
674339	DG212BDY	SOP-16	CMOS quad SPST analog switch	1.41	1.26	1.17
697119	DG271BDY	SOIC-16	Hi-spd quad mono (SPST) switch	4.55	3.68	3.47
674347	DG303BDJ	DIP-14	Dual CMOS DPST analog switch	2.55	2.31	2.08
674355	DG333ADW	SOP-20	Precision quad SPDT analog switch	3.39	3.05	2.73
697127	DG403BDJ	DIP-16	Low-power, high-speed switch	4.70	4.23	3.81
697143	DG405DY	SOIC-16	Low-power, high-speed analog switch	3.75	3.35	3.04
674363	DG406DN	PLCC-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	4.39	3.95	3.64
674371	DG406DW	SOP-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	6.59	6.36	6.13
674398	DG413DJ	DIP-16	Imprvd quad SPST (2NO&2NC) analog sw.	1.65	1.24	.74
674401	DG417DY	SOP-8	Improved SPST NC analog switch	.94	.89	.77
674419	DG418DJ	DIP-8	Improved SPST NO analog switch	1.59	1.42	1.27
674427	DG418DY	SOP-8	Improved SPST NO analog switch	.94	.89	.77
697151	DG441DY	SOIC-16	Quad (SPST) CMOS analog switch	1.43	1.31	1.24
697178	DG540DN	PLCC-20	Wideband/video "T" switch	3.65	3.35	3.15
697186	DG541DY	SOIC-16	Wideband/video "T" switch	3.19	2.93	2.75
697194	DG613DY	SOIC-16	Hi-spd, low-glitch D/CMOS analog sw.	3.85	3.56	3.39
674435	DG641DY	SOP-16	Quad SPST low on-res. wideband/video sw.	2.75	2.47	2.21
674451	DG642DY	SOP-8	SPDT low on-res. wideband/video sw.	1.89	1.78	1.38
674460	DG643DY	SOP-16	Dual SPDT low on-res. wideband/video sw.	2.75	2.62	2.03
674478	DG9431DY	SOP-8	Low-volt. single SPDT analog switch	1.17	1.13	.96

## Linear Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
25751	MF10CN	DIP-20	General purpose dual active filter	\$3.35	\$3.03	\$2.76
16301	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)(TC426CPA)	5.19	4.67	4.19
239281	DG201BDJ	DIP-16	Quad analog switch	1.34	1.25	.98
239290	DG202BDJ	DIP-16	Quad analog switch	1.35	1.15	1.06
239311	DG211BDJ	DIP-16	Quad analog switch	1.17	1.06	.96
239329	DG211CJ	DIP-16	SPST quad channel analog switch	3.42	2.91	2.19
23721	LM331N	DIP-8	Prec volt to freq convtr (150ppm/C)	2.19	1.69	1.30
23739	LM334Z	TO-92	Adjust current source	.52	.48	.432
297676	LM336BZ-5.0	TO-92	5V voltage reference diode	1.32	.98	.81
23771	LM336Z-2.5	TO-92	Voltage reference (2.5V)	.36	.264	.204
120889	LM385BZ2.5	TO-92	Voltage reference diode (2.5V±1.5%)	.39	.37	.349
24117	LM385Z1.2	TO-92	Micropower volt ref diode (1.2V)	.42	.372	.28
23000	LF398N	DIP-8	Sample and hold circuit	1.14	.98	.75
309833	DG403DJ	DIP-16	Dual SPDT (NO) & SPDT (NC) analog switch	2.95	2.50	1.88
256541	DG406DJ	DIP-28	1 of 16 multiplexer/demultiplexer	4.65	3.94	2.96
272161	DG407DJ	DIP-28	Dual 8-ch multiplexer/demultiplexer	5.69	5.11	4.61
256532	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	1.75	1.49	1.29
279540	DG419DJ	DIP-8	Dual SPST (NO), dual SPST (NC) analog switch	1.85	1.60	1.51
33347	TL431CLP	TO-92	Program precision reference	.40	.314	.236
33355	TL494CN	DIP-16	Control circuit pulse-width-modulated	.43	.32	.25
27422	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20
246676	LM555CN	SOIC-8	CMOS 555 timer	.71	.504	.372
126797	LM555CN	DIP-8	CMOS 555 timer	.66	.61	.55
24328	LM556N	DIP-14	Dual 555 timer	.82	.60	.45
27457	NE558N	DIP-16	Quad timer (NE558C)	.68	.62	.52
27473	NE564N	DIP-16	High frequency phase locked loop	2.34	1.79	1.26
24352	LM565N	DIP-14	Phased locked loop	1.69	1.28	.96
24395	LM567CN	DIP-8	Tone decoder	.45	.43	.31
246650	LM567CN	DIP-8	Tone decoder	.97	.89	.69

\*10 pcs./\*\*20 pcs. in Linear kit, right above

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Linear Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
27490	NE571N	DIP-16	Companion, subscriber	\$3.55	\$3.20	\$2.88
239257	LT1004CZ-1.2	TO-92	1.2V, micropower voltage reference	.68	.57	.46
118578	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211	LM1496N	DIP-14	Balanced mod/demodulator (MC1496P)	.65	.56	.506
34278	ULN2003AN	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28
193826	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.39	.30	.23
34972	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
280073	TLE2426CLP	TO-92	Rail splitter precision virtual ground	1.25	.99	.92
34315	ULN2803A	DIP-18	Hi-volt/curr. darl. transistor array	.76	.65	.54
123625	LM2907N-8	DIP-8	Frequency to voltage converter	1.79	1.35	.99
23317	LM2907N	DIP-14	Frequency to voltage converter	1.31	1.16	1.01
23350	LM2917N-8	DIP-8	Freq. to voltage conv. w/ zener	1.85	1.57	1.18
23341	LM2917N-14	DIP-14	Freq. to voltage conv. w/ zener	2.03	1.53	1.13
12079	CA3046N	DIP-14	NPN transistor array (ULN2046)	.61	.58	.51
12159	CA3086N	DIP-14	Transistor array NPN (ULN2086)	1.29	1.19	1.09
12247	CA3162E	DIP-16	Dual slope & rate analog/digital conv.	10.95	9.85	8.85
31974	SG3524N	DIP-16	Regulating pulse width modulator	.59	.52	.43
25275	MC4044P	DIP-14	Frequency phase detector	9.99	7.49	5.25
51140	7555IPA	DIP-8	CMOS timer (LM555CN)	.33	.31	.29
51174	7660CPA	DIP-8	CMOS volt convtr (+5 to ±5V) (M660AN)	.75	.68	.59
316646	ICL7662CPA	DIP-8	Volt converter, 20Vin, 4.5-20V out	2.95	2.75	2.49

\*10 pcs. in Linear kit, below ♣ Pull = Extra Savings

## Linear and Interface IC Kit SAVE \$60

10 each:	TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT
20 each:	LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05CZ, 7812T



84988

Part No.	Description	Wt. (lbs.)	1	10
84988	480 pcs. (40 types) analog IC kit	6.0	\$212.95	\$192.64
130411	Refill for 84988 (480 pcs.)	1.3	203.94	177.97

## Digital Potentiometers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
241744	MCP41010-IP	DIP-8	10kΩ, 256 steps, SPI digital pot	\$1.69	\$1.55	\$1.41
241752	MCP42010-IP	DIP-14	10kΩ, 256 steps, 2-ch, SPI digital pot	2.35	2.21	2.10

## Pressure Sensor

Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls

- To convert kPa to PSI: 1kPa = 0.1450377PSI
- Differential type



Part No.	Cross Ref.	Case Type	Pressure (kPa)	Output	Op. Volt. (VDC@mA)	1	10	100
320987	MPX2010DP	344C	0 - 10	25mV	10 @ 6	\$17.82	\$16.15	\$13.84



## Hall Effect Sensors

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Part No.	Product No.	Pkg.	Description	1	10	100
1718938	A3240EUA	SIP-3	Chopper-stabilized precision switch	\$.93	\$.88	\$.82
1718743	A1302EUA-T	SIP-3	Continuous-time ratiometric linear sensor	.96	.90	.84

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## Temperature Sensors

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
107094	NSC	LM34CZ	TO-92	Prec temp sensor (-40° to +230°F)	\$5.45	\$4.52	\$4.30
193480	NSC	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F)	1.85	1.39	1.10
155192	NSC	LM34DZ	TO-92	Prec temp sensor (+32° to +212°F)	1.99	1.67	1.25
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C)	2.35	2.00	1.50
107107	NSC	LM35CZ	TO-92	Prec temp sensor (-40° to 110°C)	4.39	3.37	2.52
155740	NSC	LM35DZ	TO-92	Prec temp sensor (0° to +100°C)	1.69	1.35	1.25
278387	ADI	TMP36GT9	TO-92	Low voltage temp sensor	1.19	.99	.79
826662	TI	TMP75AID	SOIC-8	Digital sensor w/ 2-wire interface	1.85	1.69	1.59
282028	+	LM135H	TO-46	Precision temperature sensor	9.95	9.09	8.27
120820	+	LM335AZ	TO-92	Precision temperature sensor	.98	.90	.86
23755	+	LM335Z	TO-92	Volt mode temperature sensor	.67	.61	.44
241939	+	AD590JH	TO-52/3	Two terminal IC temp transducer	6.85	6.49	6.19
313306	+	AD594AQ	DIP-14	Thermocouple amp for iron-constantan	12.99	11.69	10.53
313293	+	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel	13.55	11.89	10.52

♦ Jameco Value Offering NSC = National Semiconductor ADI = Analog Devices TI = Texas Instruments

## ON Semiconductor® Transistors

* Minimum order 10 pieces							
Part No.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ Ic)	1	10 100
878551	MPSA13RLRA	TO-92	NPN	30	5000 @ 10mA	* .131	\$.118
800876	MPSA20	TO-92	NPN	40	40 @ 5mA	* .185	.167
800892	MPSA27RLRAG	TO-92	NPN	60	10000 @ 10mA	* .131	.118
806784	BDX33C	TO-220AB	NPN	100	750 @ 3A	★ Call	Call
800930	MPSA42RLRAG	TO-92	NPN	300	25 @ 1mA	* .095	.085
806821	BDX53C	TO-220AB	NPN	100	4 @ 3A	★ Call	Call
878761	MPSA77	TO-92	PNP	60	10000 @ 10mA	* .157	.141
801211	MPSA77RLRA	TO-92	PNP	60	10000 @ 10mA	* .243	.219
886008	D44VH10	TO-220AB	NPN	80	35 @ 2A	.71	.62
806952	D44VH10C	TO-220AB	NPN	80	35 @ 2A	.86	.81
807023	DTC114EET1	SOT-416	NPN	50	60 @ 100mA	* .125	.112
878497	MPS8099	TO-92	NPN	80	100 @ 1mA	* .11	.087
878139	MJE15033	TO-220	PNP	250	70 @ 0.5A	1.45	1.25
800016	MPS2222ARL	TO-92	NPN	40	35 @ 0.1mA	* .062	.056
880546	P2N2222A	TO-92	NPN	40	35 @ 0.1mA	* .132	.119
878358	MPS2907ARL	TO-92	PNP	60	75 @ 0.1mA	* .059	.053
880685	PN2907ARLRA	TO-92	PNP	60	75 @ 0.1mA	* .159	.143
803284	PZT2907AT1G	SOT-223	PNP	60	75 @ 0.1mA	* .332	.299
885161	2N3904G	TO-92	NPN	40	40 @ 0.1mA	* .055	.049
805634	2N3906RLRM	TO-92	PNP	40	60 @ 0.1mA	* .051	.046
805685	2N4401RLRAG	TO-92	NPN	40	20 @ 0.1mA	* .03	.028
885478	2N6040	TO-220AB	PNP	60	1000 @ 4A	★ Call	Call
885507	2N6043	TO-220AB	NPN	60	1000 @ 4A	★ Call	Call
806080	2N6045G	TO-220AB	NPN	100	1000 @ 3A	★ Call	Call
885540	2N6109	TO-220AB	PNP	50	30 @ 2.5A	.80	.75
806160	2N6387G	TO-220AB	NPN	60	1000 @ 5A	.78	.64
806186	2N6388G	TO-220AB	NPN	80	1000 @ 5A	★ Call	Call
885611	2N6491	TO-220AB	PNP	80	20 @ 5A	.78	.74
806371	2N6491G	TO-220AB	PNP	80	20 @ 5A	.78	.74
885697	2N6520RLRA	TO-92	PNP/PNP	350	20 @ 1mA	* .279	.251
800542	MPS8599RLRA	TO-92	PNP	80	100 @ 1mA	* .245	.22

★ Please call or visit our website for minimum order quantity and pricing

## NPN/PNP Bipolar Transistors

* Minimum order 10 pieces							
Part No.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ Ic)	1	10 100
784853	BCX70K	SOT-23	NPN	45	100 @ 50mA	* .035	\$.029
784790	BC549B	TO-92	NPN	30	110 @ 2mA	* .113	.102
873258	MMBT2222A_NL	SOT-23	NPN	40	35 @ 0.1mA	* .046	.032
873291	MMBT3904_NL	SOT-23	NPN	40	40 @ 0.1mA	* .043	.039
783527	2N4401_D81Z	TO-92	NPN	40	20 @ 0.1mA	* .063	.057
783498	2N4401TA	TO-92	NPN	40	20 @ 0.1mA	* .049	.044
786710	MMBT4401_NL	SOT-23	NPN	40	20 @ 0.1mA	* .048	.043
873274	MMBT2907A_NL	SOT-23	PNP	60	75 @ 0.1mA	* .039	.033
783455	2N3906BU	TO-92	PNP	40	60 @ 0.1mA	* .036	.032
786728	MMBT4403_NL	SOT-23	PNP	40	30 @ 0.1mA	* .048	.043

♦ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend			
New	Sale	Lower\$	QtySave

## ON Semiconductor® Prog. Unijunction Transistors

* Minimum order 5 pieces							
Part No.	Product No.	Pkg.	V <sub>ceKf</sub>	Power Dissipation	1	5	50
806063	2N6027G	TO-92	40	300mW	* .229	\$.21	
885419	2N6027RLRA	TO-92	40	300mW	* .16	.15	

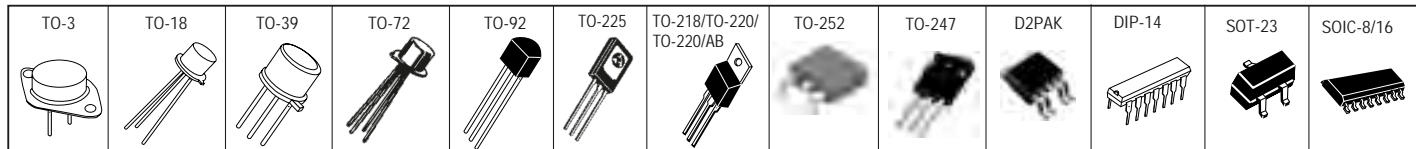
## NPN Bipolar Transistors

* Minimum order 10 pieces									
Part No.	Cross Ref.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ Ic)	1	10	100 1000
26462	MPSA06	+	TO-92	NPN	80	100k @ .01A	* .018	\$.016	\$.014
26489	MPSA13	+	TO-92	NPN	30	5k @ .01A	* .059	.034	.028
210593	MPSA14	+	TO-92	NPN	30	20k @ .10A	* .083	.067	.038
210681	MPSA18	+	TO-92	NPN	45	500 @ .001A	* .083	.066	.049
33021	TIP29A	FSC	TO-220	NPN	60	15 @ 1A	.43	.395	.382
33048	TIP31A	+	TO-220	NPN	60	10 @ 3A	.49	.39	.35
179354	TIP31C	FSC	TO-220	NPN	100	10 @ 3A	.49	.37	.30
33081	TIP41A	+	TO-220	NPN	60	15 @ 3A	.59	.531	.425
179371	TIP41C	FSC	TO-220	NPN	100	15 @ 3A	.35	.31	.248
178546	MPSA42	+	TO-92	NPN	30	40 @ .03A	* .086	.058	.055
849881	BCX56-10T/R	NXP	SOT-223	NPN	80	63 @ 150mA	* .182	.164	.148
32977	TIP102	+	TO-220	NPN	100	1k @ 3A	.57	.49	.41
179240	TIP102	FSC	TO-220	NPN	100	1k @ 3A	.46	.384	.36
32993	TIP120	+	TO-220	NPN	60	1k @ 3A	.49	.45	.39
120221	BPW77NA	+	TO-18	NPN	70	—	1.99	1.89	1.55
179291	TIP120	FSC	TO-220	NPN	60	1k @ 3A	.54	.47	.39
288585	TIP121	+	TO-220	NPN	80	1k @ .5A	.34	.306	.245
120416	TIP122	+	TO-220	NPN	100	1k @ 3A	.42	.37	.35
179303	TIP122	FSC	TO-220	NPN	100	1k @ 3A	.55	.42	.32
890445	TIP142	ST	TO-218	NPN	100	1000 @ 0.5A	1.43	1.34	1.24
254810	BC337	+	TO-92	NPN	45	100 @ .10A	* .061	.049	.037
254799	BC547C	FSC	TO-92	NPN	45	600 @ .002A	* .046	.039	.025
916158	BC847BT/R	NXP	SOT-23	NPN	45	200 @ 2mA	* .023	.022	.02
849151	BC847CWT/R	NXP	SOT-23	NPN	45	420 @ 2mA	* .14	.062	.056
38228	2N2219A	+	TO-39	NPN	40	100 @ .15A	.41	.37	.31
924829	2N2222	ST	TO-39	NPN	30	35 @ 0.1mA	* .421	.412	.371
26446	MPQ2222	+	DIP-14	NPN	40	100 @ .15A	2.79	2.52	2.29
28628	PN2222	+	TO-92	NPN	30	100 @ .15A	* .065	.041	.025
213938	MMBT2222A	+	SOT-23	NPN	40	100 @ .15A	* .04	.03	.022
210673	MPS2222A	+	TO-92	NPN	40	40 @ .50A	* .058	.052	.045
178511	PN2222A	+	TO-92	NPN	40	100 @ .15A	* .13	.092	.051
38236	2N2222A	+	TO-18	NPN	40	100 @ .15A	.42	.41	.39
38295	2N3053	+	TO-39	NPN	40	25 @ .15A	.49	.475	.45
211385	TIP3055	+	TO-218	NPN	60	5 @ .001A	1.05	.94	.76
38308	2N3055	+	TO-3	NPN	60	15 @ 10A	.89	.79	.68
211406	2N3055A	+	TO-3	NPN	60	20 @ 4A	1.55	1.49	1.13
25857	MJE3055T	+	TO-220	NPN	60	20 @ 4A	.53	.49	.45
194415	2N3439	+	TO-39	NPN	350	40 @ .02A	.53	.477	.382
209242	2N3771	+	TO-3	NPN	40	15 @ 15A	1.79	1.58	1.50
38324	2N3772	+	TO-3	NPN	40	15 @ 10A	1.89	1.79	1.69
140151	2N3773	+	TO-3	NPN	140	15 @ 8A	2.45	2.32	2.26
94967	MMBT3904	+	SOT-23	NPN	40	100 @ .01A	* .042	.034	.025
38359	2N3904	+	TO-92	NPN	40	100 @ .01A	* .069	.057	.035
178597	2N3904	FSC	TO-92	NPN	40	100 @ .01A	* .09	.06	.045
38421	2N4401	+	TO-92	NPN	40	100 @ .15A	* .08	.06	.05
310666	2N5038	+	TO-3	NPN	150	20 @ 12A	6.89	6.20	4.96
832499	2SC5200-O	TOS	TO-3P	NPN	230	55 @ 1A	2.45	1.94	1.85
194600	2N6059	+	TO-3	NPN	100	750 @ 5A	1.75	1.54	1.49
194618	2N6547	+	TO-3	NPN	400	12 @ 5A	2.99	2.84	2.68
194626	2N6678	+	TO-3	NPN	400	8 @ 15A	6.79	6.22	5.64
1631306	MMBT3904LT1X	INF	SOT-23	NPN	40	30 @ 0.1A	* .017	.016	.015

♦ Jameco Value Offering FSC = Fairchild Semiconductor NXP = Philips Semi ST = ST Micro  
TOS = Toshiba Semi INF = Infineon \*10 pcs./\*\*100 pcs. in Transistor cabinet kit, pg 41

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Thousands of additional ICs are now available on our website.



## PNP Bipolar Transistors

* Minimum order 10 pieces									
Part No.	Cross Ref.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100 1000
33030	TIP30A	+	TO-220	PNP	60	15 @ 1A	.56	.33	.311 .233
33064	TIP32A	+	TO-220	PNP	60	10 @ 3A	.37	.335	.28 .23
181841	TIP32C	+	TO-220	PNP	100	10 @ 3A	.29	.261	.222 .167
890592	TIP36C	ST	TO-218	PNP	100	25 @ 1.5A	1.13	1.06	.99 .89
33101	TIP42A	+	TO-220	PNP	60	15 @ 3A	.46	.39	.386 .306
139580	TIP42C	+	TO-220	PNP	100	15 @ 3A	.39	.34	.29 .22
178554	MPSA92	+	TO-92	PNP	300	25 @ .003A	.108	.076	.052
32985	TIP106	+	TO-220	PNP	80	1k @ 3A	.64	.58	.52 .442
179258	TIP107	+	TO-220	PNP	100	1k @ 3A	.49	.39	.353 .21
288526	TIP115	+	TO-220	PNP	60	1k @ 1A	.31	.28	.22 .167
33013	TIP125	+	TO-220	PNP	60	1k @ 3A	.49	.45	.29 .26
179320	TIP127	FSC	TO-220	PNP	100	1k @ 3A	.45	.40	.32 .24
812990	TIP145	ST	TO-218	PNP	60	1000 @ 5A	1.39	1.31	1.22 .97
890488	TIP147	ST	TO-218	PNP	100	1000 @ 5A	1.43	1.34	1.25 1.13
848917	BC557B	NXP	TO-92	PNP	45	125 @ 2mA	.062	.058	.052
869603	2SB772	ST	TO-216	PNP	30	100 @ 100mA	.372	.294	.265
194378	2N2905A	+	TO-39	PNP	60	100 @ .15A	.45	.43	.41 .31
26454	MPQ2907	+	DIP-14	PNP	40	100 @ .15A	2.19	1.85	1.35 .99
28644	PN2907	+	TO-92	PNP	40	100 @ .15A	.106	.085	.045
211342	MPS2907A	+	TO-92	PNP	60	100 @ .15A	.069	.061	.046
178520	PN2907A	+	TO-92	PNP	60	100 @ .15A	.098	.064	.058
38279	2N2907A	+	TO-18	PNP	60	100 @ .15A	.38	.333	.286 .257
25831	MJE2955T	+	TO-220	PNP	60	20 @ 4A	.53	.375	.361 .272
38375	2N3906	+	TO-92	PNP	40	100 @ .01A	.051	.035	.034
178618	2N3906	FSC	TO-92	PNP	40	100 @ .01A	.046	.042	.033
38447	2N4403	+	TO-92	PNP	40	100 @ .15A	.05	.04	.036
194571	2N6042	+	TO-220	PNP	100	1k @ 3A	.66	.60	.476 .447
194597	2N6052	+	TO-3	PNP	100	750 @ 6A	2.25	1.96	1.68 1.50

† Jameco Value Offering FSC = Fairchild Semiconductor ST = ST Micro NXP = Philips Semi  
\* 10 pcs./ \* 100 pcs. in Transistor cabinet kit, pg 41

## J-FETs

* Minimum order 10 pieces									
Part No.	Cross Ref.	Mfr.	Pkg.	Desc.	BV <sub>GS</sub> @ I <sub>GS</sub> (μA)	I <sub>DSS</sub> (mA) @ V <sub>DS</sub>	1	10	100 1000
26403	MPF102	+	TO-92	N-Ch	-25 @ -10	2 @ 15	.155	.11	.08
253948	2N5457	+	TO-92	N-Ch	-25 @ -10	1 @ 15	.20	.18	.126 .102
253921	2N5458	+	TO-92	N-Ch	-25 @ -10	2 @ 15	.10	.075	.071
253577	2N5486	+	TO-92	N-Ch	-25 @ -1	8 @ 15	.26	.20	.14 .133
38527	2N5951	+	TO-92	N-Ch	-30 @ -1	7 @ 15	.69	.64	.44 .39
253913	2N5460	+	TO-92	P-Ch	40 @ 10	-1 @ -15	.38	.29	.21 .19

† Jameco Value Offering \* 10 pcs. in Transistor cabinet kit, pg 41

## N-Channel MOSFETs

* Minimum order 5 pieces									
Part No.	Product No.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	5	50	
870209	BUZ11_R4941	TO-220AB	N-ch	50	30A	.82	.66	.50	
787747	RFD12N06RLE	TO-251AA	N-ch	60	17A	.69	.63	.536	
787798	RFP12N10L	TO-220AB	N-ch	100	12A	.65	.55	.47	
787755	RFD14N05L	TO-251AA	N-ch	50	14A	.55	.494	.417	
787763	RFD14N05LSM_NL	TO-252AA	N-ch	50	14A	.71	.59	.44	
874971	RFD14N05SM	TO-252AA	N-ch	50	14A	.408	.344		
787771	RFD16N05SM	TO-252AA	N-ch	50	16A	.75	.69	.58	
787819	RFP22N10	TO-220AB	N-ch	100	22A	1.19	1.07	.91	
875034	RFP40N10	TO-247	N-ch	100	40A	1.15	1.07	.90	
787843	RFP50N05L	TO-220AB	N-ch	50	50A	1.15	1.07	.90	
875051	RFP50N06	TO-220AB	N-ch	60	50A	.99	.89	.75	

† This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## N-Channel MOSFETs (Cont.)

For more Fairchild MOSFETs visit [www.Jameco.com](http://www.Jameco.com)

* Minimum order 5 pieces									
Part No.	Product No.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	5	50	
875077	RFP70N06	TO-220AB	N-ch	60	70A	1.55	1.40	1.18	
787851	RFP70N06_NL	TO-220AB	N-ch	60	70A	1.55	1.40	1.18	
871017	FDN337N	SuperSOT-3	N-ch	30	10A	.343	.309		
874875	NDT3055L	SOT-223	N-ch	60	10A	.55	.46	.40	
874998	RFD3055LE	TO-251AA	N-ch	60	11A	.55	.487	.411	
787827	RFP3055LE	TO-251AA	N-ch	60	11A	.55	.505	.426	
787835	RFP3055LE_NL	TO-251AA	N-ch	60	11A	.55	.514	.478	
787780	RFD3055LESM	TO-252AA	N-ch	60	11A	.59	.52	.439	
785901	HRF3205	TO-220AB	N-ch	55	100A	1.39	1.27	1.07	
787501	NDP4060L	TO-220	N-ch	60	15A	.87	.70	.52	
783578	2N5459	TO-92	N-ch	25	—	.088	.085		
783586	2N7000_D752	TO-92	N-ch	60	75mA	.078	.073		
783594	2N7000_NL	TO-92	N-ch	60	75mA	.085	.08		
783607	2N7002MTF	SOT-23	N-ch	60	500mA	.098	.089		
785910	HUF75343P3	TO-220AB	N-ch	55	75A	1.79	1.65	1.39	
785928	HUF75343S3S	TO-263AB	N-ch	55	75A	2.05	1.86	1.57	
785936	HUF75344G3	TO-247	N-ch	55	75A	2.09	1.91	1.61	
785944	HUF75639P3	TO-220AB	N-ch	100	56A	1.39	1.27	1.07	
785952	HUF75639S3S	TO-263AB	N-ch	100	56A	1.75	1.60	1.35	
785961	HUF75645P3	TO-220AB	N-ch	100	75A	2.69	2.46	2.07	
785979	HUF75645S3S	TO-263AB	N-ch	100	75A	3.89	3.60	3.03	
785987	HUF75652G3	TO-247	N-ch	100	75A	6.25	5.76	4.86	
785995	HUF76609D3	TO-251AA	N-ch	100	10A	.69	.62	.523	

## N-Channel & P-Channel MOSFETs

* Minimum order 10 pieces									
Part No.	Cross Ref.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	10	100 1000
669871	IRFZ24N	+	TO-220AB	N-Ch	55	17A	.56	.445	.401 .335
669927	IRFBG30	+	TO-220AB	N-Ch	1000	3.1A	1.65	1.31	1.00 .90
669935	IRFZ34N	+	TO-220AB	N-Ch	55	26A	.59	.468	.42 .348
669943	IRLZ34N	+	TO-220AB	N-Ch	55	30A	.69	.65	.60 .527
669951	IRFZ44N	+	TO-220AB	N-Ch	55	49A	.78	.62	.56 .52
1563147	IRFZ44NPBF	IRF	TO-220AB	N-Ch	55	49A	.93	.76	.70 .63
669978	IRFZ46N	+	TO-220AB	N-Ch	55	53A	.99	.94	.88 .71
669986	IRFZ48N	+	TO-220AB	N-Ch	55	64A	.99	.80	.71 .59
256031	BS170	+	TO-92	N-Ch	60	—	.10	.07	.06
670080	IRFP250	+	TO-247	N-Ch	200	30A	1.79	1.67	1.50 1.19
879203	MTP2P50E	ONS	TO-220	P-Ch	500	2A	2.65	2.23	1.87 1.68
670101	IRFP260N	+	TO-247	N-Ch	200	50A	3.25	2.58	2.19 1.97
1562304	IRFP260NPBF	IRF	TO-247AC	N-Ch	200	50A	3.29	2.63	2.37 2.13
871092	FDV303N	FSC	SOT-23	N-Ch	25	0.5A	.235	.212	.191
670135	IRFP450	+	TO-247	N-Ch	500	14A	2.46	1.98	1.79 1.50
670143	IRFP460	+	TO-247	N-Ch	500	20A	2.75	2.20	1.98 1.65
209234	IRF510	+	TO-220	N-Ch	100	5.6A	.69	.59	.55 .49
209226	IRF520	+	TO-220	N-Ch	100	10A	.56	.48	.45 .40
209058	IRL520N	+	TO-220	N-Ch	100	10A	.68	.63	.56 .468
210500	IRF530	+	TO-220	N-Ch	100	14A	.66	.57	.52 .49
670151	IRF530N	+	TO-220AB	N-Ch	100	17A	.71	.58	.444 .37
210518	IRF540	+	TO-220	N-Ch	100	27A	.78	.63	.57 .48
670194	IRL540N	+	TO-220AB	N-Ch	100	30A	1.07	1.00	.92 .65
210526	IRF620	+	TO-220	N-Ch	200	6.0A	.45	.42	.35 .264
210534	IRF630	+	TO-220	N-Ch	200	9.0A	.73	.65	.58 .43
210542	IRF640	+	TO-220	N-Ch	200	18A	.79	.65	.60 .50
670231	IRF644	+	TO-220AB	N-Ch	250	14A	.99	.88	.74 .65

† Jameco Value Offering IRF = International Rectifier ONS = ON Semi FSC = Fairchild † Digital FET

## N-Channel & P-Channel MOSFETs

\* Minimum order 10 pieces

Part No.	Cross Ref.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	DS Current	1	10	100	1000
210551	IRF730	+	TO-220	N-Ch	400	5.5A	\$.59	\$.53	\$.47	\$.353
210569	IRF740	+	TO-220	N-Ch	400	10A	1.25	1.10	.89	.80
210577	IRF820	+	TO-220	N-Ch	500	4.0A	.48	.46	.43	.28
210585	IRF830	+	TO-220	N-Ch	500	4.5A	.65	.62	.59	.44
184719	IRF840	+	TO-220	N-Ch	500	8.0A	1.28	1.05	.88	.50
670266	IRF1010N	+	TO-220AB	N-Ch	55	85A	1.19	1.14	1.09	.99
693695	IRF1010NL	+	TO-262	N-Ch	55	85A	3.19	2.55	1.95	1.75
670274	IRF1310N	+	TO-220AB	N-Ch	100	42A	1.37	1.20	1.03	.80
670282	IRF1405	+	TO-220AB	N-Ch	55	169A	3.85	3.44	2.87	2.22
279460	VN2222LL	+	TO-92	N-Ch	60	.75A	.23	.20	.16	.14
279478	2N406L	+	TO-92	N-Ch	240	1.0A	.55	.44	.34	.21
832552	2SK2837	TOS	TO-3P	N-Ch	500	20A	4.29	3.84	3.47	3.12
618089	IRF3205	+	TO-220	N-Ch	55	110A	2.39	1.75	1.45	1.26
670354	IRF3415	+	TO-220AB	N-Ch	150	43A	1.75	1.38	1.26	1.07
618071	IRL3705	+	TO-220	N-Ch	55	89A	1.37	1.23	.98	.74
802732	NTB60N06	ONS	D2PAK	N-Ch	60	60A	1.59	1.48	1.25	1.13
815787	SUP60N06-18	VSH	TO-220AB	N-Ch	60	60A	3.65	3.48	3.18	2.86
178669	2N7000	FSC	TO-92	N-Ch	60	0.2A	.25	.194	.136	.122
119423	2N7000	+	TO-92	N-Ch	60	0.3A	*	.11	.10	.09
885718	2N7000RLRA	ONS	TO-92	N-Ch	60	0.2A	*	.105	.095	.086
140169	2N7002	+	SOT-23	N-Ch	60	0.5A	*	.084	.063	.038
785514	FOA36P15	FSC	TO-3P	P-Ch	-150	-36A	4.29	3.60	2.57	2.31
700091	SUB75P03-07	VSH	TO-263	P-Ch	-30	-120A	5.75	4.77	4.49	4.31
870188	BSS84	FSC	SOT-23	P-Ch	-50	-0.6A	*	.118	.106	.095
256057	BS250	+	TO-92	P-Ch	-45	—	.37	.34	.30	.20
871113	FDV304P	FSC	SOT-23	P-Ch	-25	-1A	.50	.36	.294	.265
870971	FD640P	FSC	SuperSOT-6	P-Ch	-20	-20A	.39	.337	.279	.24
255046	SI4435DY	+	SOIC-8	P-Ch	-30	-40A	.60	.496	.45	.388
670442	IRF4905	+	TO-220AB	P-Ch	-55	-74A	2.10	1.96	1.84	1.52
670451	IRF4905S	+	D2PAK	P-Ch	-55	-74A	2.58	1.98	1.67	1.43
670477	IRF5210	+	TO-220AB	P-Ch	-100	-40A	1.70	1.37	1.32	1.29
670485	IRF5305	+	TO-220AB	P-Ch	-55	-31A	1.29	1.19	1.13	1.07
670522	IRLML6401	+	SOT-23	P-Ch	-12	-12A	.26	.21	.19	.16
1563729	IRLML6402TRPBF	IRF	Micro-3	P-Ch	-20	-3.7A	*	.258	.232	.209
670531	IRF7404	+	SOIC-8	P-Ch	-20	-7.7A	.66	.59	.492	.44
1561150	IRF7530PBF	IRF	Micro-8	Dual N-Ch	20	5.4A	1.18	1.10	1.03	.93
670565	IRFR9024	+	TO-252AA	P-Ch	-60	-8.8A	.71	.62	.523	.424
670581	IRF9234N	+	TO-220AB	P-Ch	-55	-1.8A	.84	.71	.64	.534
670629	IRF9520	+	TO-220AB	P-Ch	-100	6A	.99	.92	.86	.77
670741	IRF9530	+	TO-220AB	P-Ch	-100	-12A	.82	.66	.59	.492
670637	IRF9530N	+	TO-220AB	P-Ch	-100	-14A	.95	.75	.66	.56
670645	IRF9540N	+	TO-220AB	P-Ch	-100	-23A	1.19	1.03	.92	.77
670653	IRF9640	+	TO-220AB	P-Ch	-200	-11A	1.29	1.22	1.18	1.15
+ Jameco Value Offering FSC = Fairchild VSH = Vishay IRF = International Rectifier TOS = Toshiba Semi ONS = ON Semiconductor * 10 pcs. in Transistor cabinet kit, below										

## Transistor Assortment Cabinet Kit



Includes: 20 drawer component cabinet (319600),  
 20 clear plastic drawers (319601),  
 20 clear dividers (319611), pg 165 and  
 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120  
 100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$75.95	\$74.59
130374	Refill for 82595 (560 pcs.)	0.4	83.94	76.28

Additional MOSFETs & Heat Sinks  
 available at [www.Jameco.com](http://www.Jameco.com)

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
 New Sale Lower\$ QtySave



## Heat Sinks

For more Wakefield Heat Sinks  
 visit [www.Jameco.com](http://www.Jameco.com)



### Low-Power

\* Minimum order 10 pieces

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582591	217-36CT6	D2Pak/TO-220/SOT-223/SOL-20	.74 x .60 x .36	\$.221	\$.207	
1582604	21736CTE6	D2Pak/TO-220/SOT-223/SOL-20	.74 x .60 x .36	.392	.305	
1582612	218-40CT3	Surface Mount	.32 x .90 x .40	.54	.481	
1582621	218-40CT5	Surface Mount	.50 x 1.03 x .40	.42	.361	
1582639	230-75AB	TO-220, LP, vert/horiz mnt	.50 x .57 x .75	.275	.223	
1582647	262-75AB-05	TO-220, horizontal mount	.50 x .75 x .53	.336	.314	
1582655	274-2AB	TO-220, low-cost, low-height	.75 x .52 x .38	.196	.184	
1582671	288-1ABE	TO-220/TO-202 compact	.22 x .88 x 1.25	.97	.77	.76
1582680	289-ABE	TO-218/TO-202/TO-220	.71 x 1.0 x .50	.307	.276	
1582683	267-1AB	TO-220, low-cost	.50 x 1.0 x 1.18	1.06	.85	.83

### High-Power

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582743	637-15ABP	TO-220, high-eff., vertical	.50 x 1.38 x 1.0	\$2.09	\$1.51	\$1.11
1582751	637-15ABPE	TO-220, high-eff., vertical	.50 x 1.38 x 1.0	1.49	1.31	1.18
1582840	667-10ABPP	TO-220, SpeedCLIP™	.50 x 1.38 x 1.0	1.55	1.39	1.24
1582760	647-15ABP	TO-220, high-performance	1.0 x 1.65 x 1.5	1.37	1.09	.93

### BGA

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582698	624-35ABT4	Omni-directional pin fin for 21mm	.83 x .83 x .35	\$2.39	\$2.25	\$2.15
1582701	625-25ABT4	Omni-directional pin fin for 25mm	.98 x .98 x .25	1.65	1.62	1.59
1582719	625-35ABT4	Omni-directional pin fin for 25mm	.98 x .98 x .35	1.38	1.29	1.21
1582794	658-35ABT4	Omni-directional pin fin for 27mm	1.1 x 1.1 x .35	1.04	.82	.69
1582807	658-45ABT4	Omni-directional pin fin for 27mm	1.1 x 1.1 x .45	2.59	2.19	1.78
1582815	658-60ABT4	Omni-directional pin fin for 27mm	1.1 x 1.1 x .60	1.32	1.05	.80
1582823	658-60ABT2	Omni-directional pin fin for 27mm	1.1 x 1.1 x .60	2.65	2.43	2.21
1582831	659-65ABT1	Unidirectional pin fin for 37mm	1.45 x 1.45 x .65	2.49	2.34	1.37

### DIP

Part No.	Product No.	Description	Size (L" x W" x H")	1	10	100
1582778	651-B	14/16-pin DIP & SRAM extruded	.25 x .74 x .24	\$.83	\$.59	\$.50

### Accessories

Part No.	Product No.	Description	1	10	100
1582541	120-8	Silicon oil-based compound 8oz. jar	\$27.65	\$20.64	\$19.78
1582559	173-7-220P	DeltaPAD™ insulator for TO-220	*	.275	.206
1582575	175-6-240-P	KAPTON™ reinforced insulator for TO-220	*	.196	.17



## Heat Sinks


For more Aavid Thermalloy Heat Sinks  
 visit [www.Jameco.com](http://www.Jameco.com)



\* Minimum order 10 pieces

Part No.	Product No.	Type	Size (L" x W" x H")	1	10	100	250
696600	507222B00000G	Dual TO-220	1.47 x 1.75 x .375	\$.39	\$.381	\$.375	\$.37
696626	530002B02500G	TO-220	2.52 x 1.65 x 1.00	1.49	1.37	1.26	1.13
696714	577002B00000G	TO-220	0.75 x 0.52 x 0.25	*	.242	.235	.228
696722	581002B02500G	TO-220	1.00 x 0.64 x 0.64	1.19	1.06	1.05	1.03
696765	7109DGG	SMD	.763 x 1.00 x 0.45	1.04	.98	.97	.95

# Heat Sinks & Diodes

**RoHS**  RoHS Compliant Product  
RoHS Also Available

**Details**  
on  
Page 1

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

Semiconductors

**JAMECO** ValuePro

## Heat Sinks

**EXCLUSIVE**

Our TO-3 & TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297 which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622 can be mounted vertically with solderable mounting tabs.



Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
326757	529801B02500	TO-218	1.64 x 0.98 x 1.51	\$1.02	\$ .98	\$ .83	\$ .71
326596	507302B00000	TO-220	0.75 x 0.38 x 0.74	.25	.23	.20	.18
326693	531002B05200	TO-220	1.38 x 0.50 x 1.00	.84	.75	.65	.495
326713	531102B02500	TO-220	1.38 x 0.50 x 1.51	.92	.90	.88	.74

## Other Manufacturers — Great Deals



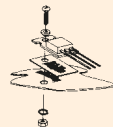
Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
16513	DUDE4	TO-3	4.80 x 1.50 x 1.30	\$3.69	\$3.43	\$3.10	\$2.80
151547	635-125B2	TO-3	1.90 x 1.40 x 1.30	1.45	1.26	1.07	.96
189835	635-5B2	TO-3	1.90 x 1.40 x 0.50	.70	.63	.57	.55
70914	THM6106	TO-220	1.20 x 1.00 x 0.50	.50	.423	.319	.259
129242	THM6106	TO-220	1.20 x 1.00 x 0.50	.55	.51	.44	.39
42622	563002B00000	TO-220	1.20 x 1.00 x 0.50	.33	.291	.273	.254
40504	291-H-36AB	TO-220	0.90 x 1.00 x 0.40	.76	.55	.477	.405
158051	577102B00000	TO-220	0.75 x 0.52 x 0.38	.39	.35	.28	.21
70658	THM6073	TO-220	0.80 x 0.70 x 0.40	.29	.269	.26	.25
107297	PSC2-U (cup-style)	TO-220	0.80 x 1.00 x 0.40	.49	.44	.35	.26

 Blue Part No. = Limited Quantity Available

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	\$3.95	\$3.55	\$3.19



## Small Signal Diodes

**NEW**



Part No.	Cross Ref.	Mfr.	Pkg.	Description	10	100
179207	1N914	VSH	DO-35	100PRV	.05	\$ .025
36311	1N914	DI	DO-35	75PRV, 0.01A	.022	.018
655269	1N914A	DI	DO-35	100VRRM, 0.2A	.025	.015
743824	1N914TR	FSC	DO-35	100VRRM, 0.2A	.042	.033
743285	1N4148_NL	FSC	DO-35	100VRRM, 0.2A	.016	.015
1537969	1N4148-T	DI	DO-35	100VRM, 150mA	.024	.019
743314	1N4148-TR	VSH	DO-35	100VRRM, 0.5A	.049	.046
743306	1N4148TR	FSC	DO-35	100VRRM, 0.2A	.026	.023
1538005	1N4148WT-7	DI	SOD-523	100VRM, 2A	.275	.247

♦ Jameco Value Offering VSH = Vishay FSC = Fairchild Semi DI = Diodes Inc.

\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 43

Additional Heat Sinks, Diodes,  
Voltage Suppressors, Triacs & SCRs  
available at [www.Jameco.com](http://www.Jameco.com)

♦ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## Zener Diodes

**NEW**

For more Fairchild Diodes  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	10	100
784917	BZX55C12	DO-35	12.7V	0.5W	\$ .039	\$ .035
785012	BZX84C4V3	SOT-23	4.6V	0.35W	.039	.035
784950	BZX84C10	SOT-23	9.4V	0.35W	.056	.049
743787	1N753A	DO-35	6.2V	0.5W	.039	.035
783261	1N748A	DO-35	3.9V	0.5W	.04	.035
743331	1N4728ATR	DO-41	3.3V	1W	.039	.035
782786	1N4730ATR	DO-41	3.9V	1W	.039	.037
782794	1N4734ATR	DO-41	5.6V	1W	.039	.035
743373	1N4735ATR	DO-41	6.2V	1W	.039	.035
782823	1N4736ATR	DO-41	3.8V	1W	.039	.035
743381	1N4737ATR	DO-41	7.5V	1W	.039	.035
743390	1N4739ATR	DO-41	9.1V	1W	.039	.035
782831	1N4740ATR	DO-41	10.0V	1W	.039	.035
743411	1N4742ATR	DO-41	12.0V	1W	.044	.036
743429	1N4743ATR	DO-41	13.0V	1W	.058	.055
743437	1N4744ATR	DO-41	15.0V	1W	.079	.069
743445	1N4745ATR	DO-41	16.0V	1W	.039	.032
782882	1N4746ATR	DO-41	18.0V	1W	.039	.035
743461	1N4747ATR	DO-41	20.0V	1W	.039	.035
782911	1N4748ATR	DO-41	22.0V	1W	.049	.039
782920	1N4749ATR	DO-41	24.0V	1W	.049	.039
743470	1N4750ATR	DO-41	27.0V	1W	.049	.039
782946	1N4751ATR	DO-41	30.0V	1W	.039	.035
782962	1N4752ATR	DO-41	33.0V	1W	.044	.042
783009	1N5228B	DO-35	3.9V	0.5W	.039	.027
783084	1N5234B_NL	DO-35	6.2V	0.5W	.039	.027
783113	1N5239BTR	DO-35	9.1V	0.5W	.039	.027

## Zener Diodes

**NEW**

Part No.	Cross Ref.	Mfr.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	10	100
36290	1N751A	DI	DO-35	5.1V	0.5W	\$ .03	\$ .022
178773	1N4732A	VSH	DO-41	4.7V	1W	.088	.069
813271	1N4732A-TAP	VSH	DO-41	4.7V	1.3W	.284	.274
36097	1N4733A	DI	DO-41	5.1V	1W	.08	.065
813319	1N4733A-TR	VSH	DO-41	5.1V	1.3W	.069	.055
178802	1N4735A	VSH	DO-41	6.2V	1W	.049	.044
36126	1N4735A	DI	DO-41	6.2V	1W	.03	.027
178837	1N4739A	DI	DO-41	9.1V	1W	.057	.038
813360	1N4741A-TR	VSH	DO-41	11.0V	1.3W	.069	.06
36169	1N4742A	DI	DO-41	12V	1W	.074	.059
743402	1N4742AT/R	NXP	DO-41	12.0V	1W	.039	.035
36185	1N4744A	DI	DO-41	15V	1W	.058	.035
1538101	1N4744A-T	DI	DO-41	15.0V	1W	.069	.055
179047	1N5231B	DI	DO-35	5.1V	0.5W	.04	.035
804973	1N5366BG	ONS	017AA	39.0V	5W	.359	.323
1305412	1N5368BG	ONS	017AA	47.0V	5W	.172	.156
1539649	BZT52C5V1-7-F	DI	SOD-123	5.1V	0.5W	.035	.032
1539526	BZT52C13-7-F	DI	SOD-123	13.0V	0.5W	.035	.032
1542717	ZMM5231B-7	DI	MiniMELF	5.1V	0.5W	.033	.031
850654	BZV55-C5V1T/R	NXP	SOD-80C	5.0V	0.5W	.084	.056
1539884	BZX84C4V7-7-F	DI	SOT-23	4.7V	0.35W	.294	.265
1539905	BZX84C5V6-7-F	DI	SOT-23	5.6V	0.35W	.297	.267
1539913	BZX84C6V2-7-F	DI	SOT-23	6.2V	0.35W	.297	.267
850857	BZX84-C11T/R	NXP	SOT-23	10.8V	0.25W	.069	.039

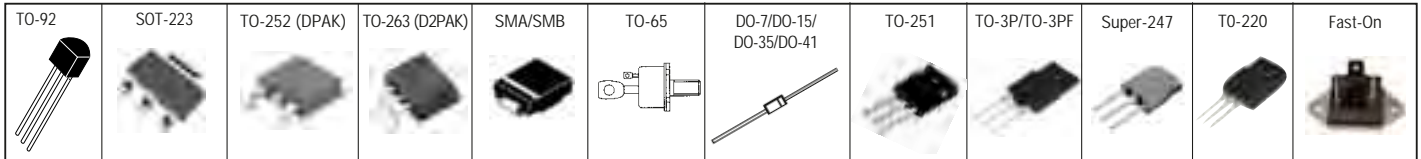
♦ Jameco Value Offering VSH = Vishay NXP = Philips DI = Diodes Inc. ONS = ON Semiconductor  
\* 10 pcs. in Diode/Rectifier cabinet kit, pg 43



## Diodes

For more Fairchild Diodes  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pkg.	Description	1	5	50
875093	RHRP1560	TO-220AC	600VRRM, 15A (hyperfast)	\$1.15	\$1.07	\$ .90
787940	RURP3020	TO-220AC	200VRRM, 30A (hyperfast)	1.89	1.72	1.45
787886	RHRG5060	TO-247	600VRRM, 50A (hyperfast)	4.15	3.81	3.21
787915	RHRP8120	TO-220AC	1200VRRM, 8A (hyperfast)	.95	.87	.73
787907	RHRP30120	TO-220AC	1200VRRM, 30A (hyperfast)	1.95	1.81	1.52



## Diodes

				* Minimum order 10 pieces		
Part No.	Cross Ref.	Mfr.	Pkg.	Description	1	10 100
<b>1683165</b>	BAS21E6327XT	INF	SOT-23	250VRM, 0.25A (Switching)	...	\$.021 .019
<b>915323</b>	BAS40-04T/R	NXP	SOT-23	40VR, 120mA (Schottky)	...	.157 .142
<b>1683405</b>	BAS40E6327XT	INF	SOT-23	40VR, 0.12A (Schottky)	...	.043 .04
<b>870145</b>	BAT54_NL	FSC	SOT-23	30VRRM, 0.2A (Schottky)	...	.046 .041
<b>1684272</b>	BAV70E6327XT	INF	SOT-23	85VRM, 0.20A (Switching)	...	.019 .017
<b>915972</b>	BAV99ST/R	INF	SOT-363	85VRRM, 0.5A (Switching)	...	.063 .06
<b>1684361</b>	BAV99E6327XT	NXP	SOT-23	85VRM, 0.20A (Switching)	...	.019 .017
<b>1684379</b>	BAV99SE6327XT	INF	SOT-363	85VRM, 0.20A (Switching)	...	.054 .051
<b>35941</b>	1N270	♦	DO-7	80PRV (Germanium)	.99	.86 .74
<b>915251</b>	BAS316T/R	NXP	SOD-323	100VRRM, 0.5A (Switching)	...	.139 .132
<b>1450501</b>	LL4148-7	DI	MiniMELF	100VRRM, 150mA (Fast switch)	...	.018 .017
<b>1631269</b>	MMBD914LT1XT	INF	SOT-23	100VRM, 250mA	...	.016 .015
<b>312101</b>	MBR1100	♦	DO-41	100PRV, 1.0A (Schottky)	.26	.234 <b>.187</b>
<b>179215</b>	1N4148	VSH	DO-35	100PRV (Switching)	...	.04 <b>.032</b>
<b>36038</b>	1N4148	**	DO-35	75PRV, 0.01A (Switching)	...	.03 .025
<b>151247</b>	1N4148T	♦	DO-35	75PRV, 0.01A (Switching)	...	Call Call
<b>743293</b>	1N4148T/R	NXP	DO-35	100VRRM, 0.5A (Switching)	...	.029 .019
<b>743710</b>	1N6263	ST	DO-35	60VRRM, 50mA (Schottky)	...	.08 .065
<b>743656</b>	1N5711	ST	DO-35	70VRRM, 15mA (Schottky)	...	.402 .294
<b>953637</b>	ISLR460P2_NL	FSC	TO-220	60VRRM, 4A	1.37	1.11 .95

★ Please call or visit our website for minimum order quantity and pricing  
 ♦ Jameco Value Offering FSC = Fairchild NXP = Philips INF = Infineon VSH = Vishay  
 \* 10 pcs./ \*\* 100 pcs. in Diode/Rectifier cabinet kit, below

## Diode/Rectifier Assortment Cabinet Kit

**420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers**  
 Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 165 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M  
 100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	10
<b>82587</b>	420 pcs. (15 types) diode kit	5.0	\$42.95	\$38.95

## Transient Voltage Suppressors

Part No.	Cross Ref.	Watts	Pkg.	Min. Brkdw Volt. (V <sub>BR</sub> )	Stand-Off Voltage	1	10	100	1000
<b>254908</b>	SA28A	500	DO-15	31.1	28	\$.21	\$.20	\$.153	\$.103
<b>618118</b>	1N5908	1500	DO-41	6.0	—	.69	.62	.358	.322

## SanRex® Through Hole - Standard Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
<b>657192</b>	TMG8C60F	TO-220F	Isolated 8A, 600V	\$.86	\$.81	\$.76
<b>657272</b>	TMG20C60F	TO-220F	Isolated 20A, 600V	1.49	1.40	1.30

## SanRex® Fast-On Package Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
<b>658216</b>	TG35E60	Fast-On	Isolated 35A, 600V	\$7.99	\$7.09	\$6.55
<b>658267</b>	TG35F40	Fast-On	Isolated 35A, 400V	7.99	7.09	6.55
<b>658275</b>	TG35F60	Fast-On	Isolated 35A, 600V	7.29	6.44	5.95

\* For cross references to Littelfuse, ST, and ON-Semi products, refer to datasheets @ Jameco.com.

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## ON Semiconductor® Triacs

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				* Minimum order 5 pieces		
Part No.	Product No.	Pkg.	Rating	1	5	50
<b>806101</b>	2N6344	TO-220AB	600VDRM, 8A	\$1.24	\$1.16	\$1.08
<b>885566</b>	2N6348A	TO-220AB	600VDRM, 12A	1.07	.88	.84
<b>806143</b>	2N6348AG	TO-220AB	600VDRM, 12A	1.07	.97	.88
<b>808051</b>	MAC8D	TO-220AB	400VDRM, 8A	.64	.58	.53
<b>808114</b>	MAC8N	TO-220AB	800VDRM, 8A	1.14	.99	.89
<b>808149</b>	MAC8NG	TO-220AB	800VDRM, 8A	1.14	.99	.89
<b>808173</b>	MAC8SMG	TO-220AB	600VDRM, 8A	.76	.71	.65
<b>886542</b>	MAC12M	TO-220AB	600VDRM, 12A	.63	.57	.52
<b>807904</b>	MAC212A8G	TO-220AB	600VDRM, 12A	*	2.07	1.86
<b>807998</b>	MAC228A4G	TO-220AB	200VDRM, 8A	.83	.77	.72
<b>808202</b>	MAC97A4	TO-92	200VDRM, 0.6A	*	.133	.122
<b>808237</b>	MAC97A6	TO-92	400VDRM, 0.6A	*	.143	.13

## Triacs

Part No.	Cross Ref.	Mfr.	Pkg.	Type	Rating	1	10	100
<b>31819</b>	SC146B	♦	TO-220	Triac	200 V <sub>DRM</sub> , 10A (2N6342)	\$1.29	\$1.15	\$ .99
<b>31827</b>	SC146M	♦	TO-220	Triac	600 V <sub>DRM</sub> , 10A (2N6344)	1.99	1.79	1.61
<b>220492</b>	Q4008R4	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 8A	.80	.71	.68
<b>139336</b>	Q4015L5	♦	TO-220AB	Triac	400 V <sub>DRM</sub> , 15A	1.55	1.36	1.25
<b>220505</b>	Q6025R6	TEC	TO-220AB	Triac	600 V <sub>DRM</sub> , 25A	1.89	1.66	1.55
<b>220521</b>	Q6035P5	TEC	TO-3	Triac	600 V <sub>DRM</sub> , 35A	7.98	6.78	5.09
<b>140425</b>	2N6071A	♦	TO-225AA	Triac	200 V <sub>DRM</sub> , 4A	.29	.27	.25

♦ Jameco Value Offering TEC = Teccor

## ON Semiconductor® SCRs

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				* Minimum order 10 pieces		
Part No.	Product No.	Pkg.	Rating	1	10	100
<b>885582</b>	2N6397	TO-220AB	400VDRM, 12A	\$1.00	\$.93	\$.87
<b>806223</b>	2N6399	TO-220AB	800VDRM, 8A	.90	.87	.80
<b>806240</b>	2N6400	TO-220AB	50VDRM, 16A	.93	.85	.78
<b>806311</b>	2N6403	TO-220AB	400VDRM, 16A	1.11	1.01	.91
<b>885638</b>	2N6504	TO-220AB	50VDRM, 25A	.97	.88	.80
<b>806434</b>	2N6508	TO-220AB	600VDRM, 25A	.99	.90	.82
<b>885654</b>	2N6509	TO-220AB	800VDRM, 25A	1.11	1.01	.91
<b>798374</b>	MCR8N	TO-220AB	800VDRM, 8A	.64	.52	.51
<b>798382</b>	MCR8SD	TO-220AB	400VDRM, 8A	1.25	1.06	.95
<b>798403</b>	MCR8SN	TO-220AB	800VDRM, 8A	.60	.54	.50
<b>798278</b>	MCR12D	TO-220AB	400VDRM, 12A	.81	.73	.65
<b>798294</b>	MCR12N	TO-220AB	800VDRM, 12A	.67	.60	.55
<b>877689</b>	MCR22-006	TO-92	400VDRM, 1.5A	*	.176	.17
<b>798331</b>	MCR69-002	TO-220AB	50VDRM, 25A	.93	.83	.81
<b>798358</b>	MCR69-003	TO-220AB	100VDRM, 25A	1.05	.95	.86
<b>877726</b>	MCR72-008	TO-220AB	600VDRM, 8A	.91	.80	.74
<b>877662</b>	MCR100-006	TO-92	400VDRM, 8A	*	.122	.11
<b>798251</b>	MCR100-6G	TO-92	400VDRM, 0.8A	*	.17	.16

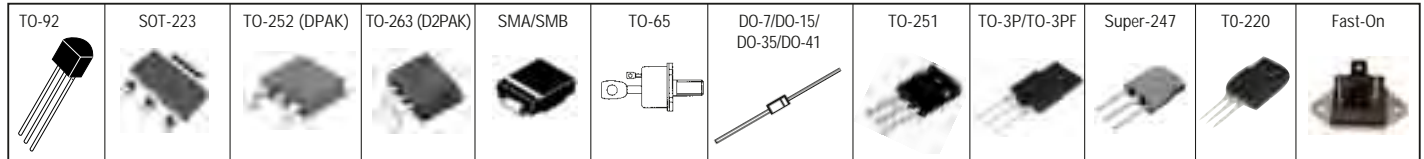
## Silicon Controlled Rectifiers (SCRs)

Part No.	Cross Ref.	Mfr.	Pkg.	Rating	1	10	100	1000
<b>14859</b>	C38M	♦	TO-65	600 PRV, 35A (2N3899)	\$6.89	\$6.19	\$5.59	\$5.05
<b>14736</b>	C106B1 *	♦	TO-202	200 PRV, 4A (2N6239)†	.67	.54	.46	.40
<b>14752</b>	C122B	♦	TO-220	200 PRV, 8A†	.73	.66	.63	.52
<b>14761</b>	C122M	♦	TO-220	600 PRV, 8A†	1.35	1.25	1.05	.69
<b>119802</b>	2N5060	♦	TO-92	25 PRV, 0.8A	.21	.19	.15	.12
<b>160135</b>	S6025L	TEC	TO-220AB	600 V <sub>DRM</sub> , 25A	1.69	1.53	1.37	1.04

† Isolated ♦ Jameco Value Offering TEC = Teccor \* 10 pcs. in Diode/Rectifier cabinet kit, left

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## ON Semiconductor Rectifiers

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Part No.	Product No.	Pkg.	Rating	* Minimum order 5 pieces		
				1	5	50
804527	1N4006RLG	59-10	800 @ 1A	* .026	.023	
804543	1N4007RLG	59-10	1000 @ 1A	* .22	.20	
743664	1N5817G	DO-41	20 @ 1A	* .138	.113	
743672	1N5818G	DO-41	30 @ 1A	* .094	.09	
743681	1N5819G	DO-41	40 @ 1A	* .163	.141	
743699	1N5820G	DO-201AD	20 @ 3A	* .192	.178	
805167	1N5821G	DO-201AD	30 @ 3A	* .214	.179	
805183	1N5822G	DO-201AD	40 @ 3A	* .238	.204	
743701	1N5822RLG	DO-201AD	40 @ 3A	* .178	.146	
802020	MUR105G	DO-41	50 @ 1A	* .25	.224	
879262	MUR110G	DO-41	100 @ 1A	* .153	.116	
879932	MURS110T3	SMB	100 @ 1A	* Call	Call	
802062	MUR115G	DO-41	150 @ 1A	2.45	2.21	1.99
879975	MURS120T3G	SMB	200 @ 1A	* Call	Call	
879289	MUR120G	DO-41	200 @ 1A	* .206	.177	
865725	MBRM120LT1	POWERMITE	20 @ 1A	* Call	Call	
865864	MBRS130LT3	SMB	30 @ 1A	* .291	.255	
865899	MBRS130LT3G	SMB	30 @ 1A	* Call	Call	
865944	MBRS130T3G	SMB	30 @ 1A	* Call	Call	
802089	MUR140G	DO-41	400 @ 1A	* .154	.142	
865995	MBRS140LT3	SMB	40 @ 1A	* Call	Call	
866058	MBRS140T3G	SMB	40 @ 1A	* Call	Call	
790567	MBR150G	DO-41	50 @ 1A	* .183	.166	
879414	MUR160G	DO-41	600 @ 1A	* .15	.116	
886622	MBR160G	DO-41	60 @ 1A	* .132	.113	
791084	MBRD320	PAK	20 @ 3A	.92	.73	.66
791105	MBRD320G	PAK	20 @ 3A	.94	.86	.79
791121	MBRD340G	PAK	40 @ 3A	* .353	.321	
790831	MBR340G	DO-201AD	40 @ 3A	* .176	.162	
791148	MBRD360G	PAK	60 @ 3A	1.09	.97	.86
886711	MBR360G	DO-201AD	60 @ 6A	* .161	.146	
886729	MBR360RLG	DO-201AD	60 @ 6A	* .134	.121	
802311	MUR405G	DO-201AD	50 @ 4A	* .419	.314	
879641	MUR410G	DO-201AD	100 @ 4A	* .275	.266	
802337	MUR415G	DO-201AD	150 @ 4A	* .419	.314	
879668	MUR420G	DO-201AD	200 @ 4A	* .21	.189	
802353	MUR460G	DO-201AD	600 @ 4A	* .347	.304	
802433	MURD620CTG	PAK	200 @ 6A	* .30	.256	
865645	MBRD640CT	PAK	40 @ 6A	.65	.60	.53
790938	MBR735	TO-220AC/2	35 @ 7.5A	.78	.75	.56
790954	MBR745G	TO-220AC/2	45 @ 7.5A	.72	.63	.56
878892	MR751RL	194	100 @ 6A	* Call	Call	
801511	MR752G	194	200 @ 6A	.75	.62	.57
878956	MR754RL	194	400 @ 6A	* Call	Call	
879721	MUR810	TO-220AC/2	100 @ 8A	.65	.534	.495
879764	MUR810G	TO-220AC/2	100 @ 8A	.65	.534	.495
802370	MUR815	TO-220AC/2	150 @ 8A	1.59	1.41	1.01
802396	MUR820G	TO-220AC/2	200 @ 8A	.78	.65	.63
791164	MBRD835LG	PAK	35 @ 8A	.60	.506	.413
879895	MURH840CT	TO-220AB/3	400 @ 8A	.92	.81	.71
801553	MR851RLG	DO-201AD	100 @ 3A	* .111	.104	
879035	MR852G	DO-201AD	200 @ 3A	* .106	.089	
801570	MR852RLG	DO-201AD	200 @ 3A	* Call	Call	
879051	MR854G	DO-201AD	400 @ 3A	* .11	.092	
801596	MR854RLG	DO-201AD	400 @ 3A	* Call	Call	
801617	MR856G	DO-201AD	600 @ 3A	* .111	.104	
801625	MR856RLG	DO-201AD	600 @ 3A	* Call	Call	

\* Please call or visit our website for minimum order quantity and pricing

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## ON Semiconductor Rectifiers (Cont.)

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Part No.	Product No.	Pkg.	Rating	* Minimum order 5 pieces		
				1	5	50
802450	MURH860CTG	TO-220AB/3	600 @ 8A	\$1.35	\$1.12	\$1.00
879810	MUR860	TO-220AC/2	600 @ 8A	1.15	1.00	.76
802417	MUR880E	TO-220AC/2	800 @ 8A	.66	.64	.62
791068	MBRD1035CTL	PAK	35 @ 10A	1.13	1.02	.80
886761	MBRB1045T4	D2PAK	45 @ 10A	* Call	Call	
886593	MBR1045	TO-220AC/2	45 @ 10A	.63	.58	.527
808341	MBR1045G	TO-220AC/2	45 @ 10A	* .55	.462	
808376	MBR1060G	TO-220AC/2	60 @ 10A	* .471	.436	
790508	MBR1090	TO-220AC/2	90 @ 10A	.75	.69	.63
802046	MUR1100EG	DO-41	1000 @ 1A	* .254	.214	
865784	MBRS1100T3	SMB	100 @ 1A	* Call	Call	
865813	MBRS1100T3G	SMB	100 @ 1A	* Call	Call	
790541	MBR1100G	DO-41	100 @ 1A	* .16	.149	
802100	MUR1515	TO-220AC/2	150 @ 15A	.69	.64	.60
879318	MUR1520G	TO-220AC/2	200 @ 15A	.92	.75	.70
790583	MBR1535CTG	TO-220AB/3	35 @ 15A	1.03	.94	.86
886614	MBR1545CT	TO-220AB/3	45 @ 15A	1.00	.76	.63
790604	MBR1545CTG	TO-220AB/3	45 @ 15A	1.00	.80	.60
879377	MUR1560G	TO-220AC/2	600 @ 15A	1.45	1.27	.99
802134	MUR1615CTG	TO-220AB/3	150 @ 16A	.64	.58	.57
879490	MUR1620CTG	TO-220AB/3	200 @ 16A	.87	.63	.58
879511	MUR1620CTR	TO-220AB/3	200 @ 16A	1.65	1.39	1.07
802151	MUR1620CTRG	TO-220AB/3	200 @ 16A	1.39	1.10	1.00
886631	MBR1635	TO-220AC/2	35 @ 16A	.65	.63	.60
790621	MBR1635G	TO-220AC/2	35 @ 16A	.79	.70	.62
802193	MUR1640CTG	TO-220AB/3	400 @ 16A	1.00	.96	.94
790647	MBR1645G	TO-220AC/2	45 @ 16A	.82	.68	.63
802425	MURB1660CT	D2PAK	600 @ 16A	1.52	1.27	1.07
879537	MUR1660CT	TO-220AB/3	600 @ 16A	1.55	1.28	1.17
802257	MUR2020RG	TO-220AC/2	200 @ 20A	* 1.09	1.04	
790701	MBR2045CTG	TO-220AB/3	45 @ 20A	.92	.84	.63
791017	MBRB2060CT	D2PAK	60 @ 20A	2.19	1.96	1.74
886681	MBR2080CT	TO-220AB/3	80 @ 20A	1.05	.81	.73
790743	MBR2080CTG	TO-220AB/3	80 @ 10A	1.06	.96	.88
801473	MR2504	MICRO BUTTON	400 @ 25A	* .295	.28	
865506	MBRB2535CTL	D2PAK	35 @ 12.5A	1.95	1.69	1.45
791236	MBRB2545CT	TO-220/3	45 @ 25A	1.99	1.86	1.72
865531	MBRB2545CT	D2PAK	45 @ 20A	1.35	1.26	1.18
802273	MUR3020PTG	TO-218/3	200 @ 30A	4.15	4.01	3.52
802290	MUR3020WT	TO-247/3	200 @ 30A	1.99	1.84	1.71
791050	MBRB3030CTL	D2PAK	30 @ 30A	2.95	2.74	2.51
886702	MBR3045PT	TO-218/3	45 @ 30A	* 1.32	1.25	
879609	MUR3060WT	TO-247/3	600 @ 30A	2.29	2.15	2.00
790815	MBR3100G	DO-201AD	100 @ 3A	* .293	.272	
879094	MRA4004T3	SMA	400 @ 1A	* .155	.137	
790891	MBR4045PT	TO-218/3	45 @ 40A	1.89	1.65	1.41
879625	MUR4100EG	DO-201AD	1000 @ 8A	* .395	.351	
790911	MBR6045WT	TO-247AC/3	45 @ 60A	3.55	3.48	3.41
879748	MUR8100E	TO-220AC/2	1000 @ 8A	.77	.67	.58
886577	MBR10100	TO-220AC/2	100 @ 10A	* Call	Call	
886585	MBR10100G	TO-220AC/2	100 @ 10A	.85	.79	.74
790997	MBRB20100CTG	D2PAK	100 @ 20A	1.14	1.12	1.08
886657	MBR20100CTG	TO-220AB/3	100 @ 20A	1.05	.95	.81
791181	MBRF20100CT	TO-220/3	100 @ 20A	1.99	1.80	1.75
790663	MBR20200CTG	TO-220AB/3	200 @ 20A	1.89	1.62	1.36
791210	MBRF20200CTG	TO-220/3	200 @ 20A	3.19	2.91	2.45

+ Isolated \* Please call or visit our website for minimum order quantity and pricing

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## Rectifiers

Part No.	Cross Ref.	Mfr.	Pkg.	Rating	* Minimum order 10 pieces		
					1	10	100
1538566	6A4-T	DI	R-6	400 V <sub>RRM</sub> , 6A	...	...	...
785400	FEP16CT	FSC	TO-220AB	150 V <sub>RRM</sub> , 16A	...	...	...
785418	FEP16FT	FSC	TO-220AB	300 V <sub>RRM</sub> , 16A	...	...	...
177754	T6A05L	+	T6L	50 PIV, 6A	...	...	...
177762	T6A10L	+	T6L	100 PIV, 6A	...	...	...
177818	T6A100L	+	T6L	1000 PIV, 6A	...	...	...
35924	1N1188	+	DO-5	400 PRV, 35A	...	...	...
871594	MBR0520L	FSC	SOD-123	20 V <sub>RRM</sub> , 0.5A (Schottky)	...	...	...
35975	1N4001	+	DO-41	50 PRV, 1A	...	...	...
1537871	1N4001-T	DI	DO-41	50 V <sub>RRM</sub> , 1A	...	...	...
76961	1N4002	+	DO-41	100 PRV, 1A	...	...	...
1537889	1N4002-T	DI	DO-41	100 V <sub>RRM</sub> , 1A	...	...	...
76970	1N4003	+	DO-41	200 PRV, 1A	...	...	...
1537897	1N4003-T	DI	DO-41	200 V <sub>RRM</sub> , 1A	...	...	...
1543613	1N4003-TR	GI	DO-204AL	200 V <sub>RRM</sub> , 1A	...	...	...
35991	1N4004	+	DO-41	400 PRV, 1A	...	...	...
1537918	1N4004-T	DI	DO-41	400 V <sub>RRM</sub> , 1A	...	...	...
1543648	1N4004-TR	GI	DO-204AL	400 V <sub>RRM</sub> , 1A	...	...	...
76988	1N4005	+	DO-41	600 PRV, 1A	...	...	...
1537926	1N4005-T	DI	DO-41	600 V <sub>RRM</sub> , 1A	...	...	...
76996	1N4006	+	DO-41	800 PRV, 1A	...	...	...
36011	1N4007	+	DO-41	1000 PRV, 1A	...	...	...
1537951	1N4007-T	DI	DO-41	1000 V <sub>RRM</sub> , 1A	...	...	...
1543728	1N4935-TR	GI	DO-204AL	200 V <sub>RRM</sub> , 1A	...	...	...
1538187	1N4937-T	DI	DO-41	600 V <sub>RRM</sub> , 1A	...	...	...
1538304	1N5399-T	DI	DO-41	1000 V <sub>RRM</sub> , 1.5A	...	...	...
77075	1N5400	+	DO-27A	50 PRV, 3A	...	...	...
36249	1N5401	+	DO-27A	100 PIV, 3A	...	...	...
1538339	1N5401-T	DI	DO-201AD	50 V <sub>RRM</sub> , 3A	...	...	...
77083	1N5402	+	DO-27A	200 PRV, 3A	...	...	...
36265	1N5404	+	DO-27A	400 PRV, 3A	...	...	...
1538363	1N5404-T	DI	DO-201AD	400 V <sub>RRM</sub> , 3A	...	...	...
36273	1N5408	+	DO-27A	1000 PRV, 3A	...	...	...
1538380	1N5408-T	DI	DO-201AD	1000 V <sub>RRM</sub> , 1A	...	...	...
177949	1N5817	+	DO-204AL	20 PIV, 1A	...	...	...
177957	1N5818	+	DO-204AL	30 PIV, 1A	...	...	...
177965	1N5819	+	DO-204AL	40 PIV, 1A	...	...	...
1538419	1N5819HW-7F	DI	SOD-123	40 V <sub>RRM</sub> , 1A (Schottky)	...	...	...
1538427	1N5819-T	DI	DO-41	40 V <sub>RRM</sub> , 1A (Schottky)	...	...	...
177990	1N5822	+	DO-201AD	40 PIV, 3A	...	...	...
1538435	1N5822-T	DI	DO-201AD	40 V <sub>RRM</sub> , 3A (Schottky)	...	...	...

◆ Jameco Value Offering DI = Diodes Inc. FSC = Fairchild Semi GI = General Instruments  
 \*10 pcs./ \*\*100 pcs. in Diode/Rectifier cabinet kit, pg 39  
 ★ Please call or visit our website for minimum order quantity and pricing

## Bridge Rectifiers

Part No.	Cross Ref.	Mfr.	Pkg.	Rating	* Minimum order 10 pieces		
					1	10	100
178001	DF005M	+	DF	50 PIV, 1A	...	...	...
103000	DF01M	+	DF	100 PIV, 1A	...	...	...
103042	DF02M	+	DF	200 PIV, 1A	...	...	...
1540041	DF02S-T	DI	DF-S	200 PRV, 1A	...	...	...
102971	DF04M	+	DF	400 PIV, 1A	...	...	...
1540050	DF04S-T	DI	DFS	400 V <sub>RRM</sub> , 1A	...	...	...
1540421	HD04-T	DI	MiniDIP-4	400 V <sub>RRM</sub> , 0.8A	...	...	...
103034	DF06M	+	DF	600 PIV, 1A	...	...	...
103026	DF10M	+	DF	1000 PIV, 1A	...	...	...
256575	DF08M	+	DIP-4	800 PIV, 1.5A	...	...	...
145429	KBP02M	+	KBP	200 PIV, 1.5A	...	...	...
119562	KBP04M	+	KBP	400 PIV, 1.5A	...	...	...
279494	W005G	+	WOG	50 PIV, 1.5A	...	...	...
103018	W02G	+	WOG	200 PIV, 1.5A	...	...	...
102980	W04G	+	WOG	400 PIV, 1.5A	...	...	...
279515	W10G	+	WOG	1000 PIV, 1.5A	...	...	...
178124	W005M	+	WOM	50 PIV, 1.5A	...	...	...
178132	W01M	+	WOM	100 PIV, 1.5A	...	...	...
178183	BR805D	+	BR8D	50 PIV, 2A	...	...	...
178204	BR82D	+	BR8D	200 PIV, 2A	...	...	...
178247	BR810D	+	BR8D	1000 PIV, 2A	...	...	...
253260	2KBP06M	+	KBP	600 PIV, 2A	...	...	...
253286	2KBP10M	+	KBP	1000 PIV, 2A	...	...	...
179477	GBPC25-01	+	GBPC	100 PIV, 25A	...	...	...
179485	GBPC25-02	+	GBPC	200 PIV, 25A	...	...	...
1544835	GBU8D	GI	GBU	200 V <sub>RRM</sub> , 8A	...	...	...
178280	MB254	+	MB35	400 PIV, 25A	...	...	...
178335	TB252	+	TB35	200 PIV, 25A	...	...	...
25574	MDA990-3	+	179-01	200 PIV, 30A	...	...	...
25591	MDA990-6	+	179-01	600 PIV, 30A	...	...	...
299882	GBPC1204	+	GBPC	400 V <sub>RRM</sub> , 12A	...	...	...
299874	GBPC1206	+	GBPC	600 V <sub>RRM</sub> , 12A	...	...	...
785709	GBPC3504W	FSC	GBPC	400 V <sub>RRM</sub> , 35A	...	...	...
178431	MB358	+	MB35	800 PIV, 35A	...	...	...
178503	TB3510	+	TB35	1000 PIV, 35A	...	...	...
1541431	RS402L	DI	RS-4L	100 V <sub>RRM</sub> , 4A	...	...	...
1541466	RS405L	DI	RS-4L	600 V <sub>RRM</sub> , 4A	...	...	...

◆ Jameco Value Offering \*10 pcs. in Diode/Rectifier cabinet kit, pg 39  
 † DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case



Additional Rectifiers & Bridge Rectifiers  
 available at [www.Jameco.com](http://www.Jameco.com)

## CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Soldering: 230°C for 3 seconds
- Operating temperature: -30°C to +70°C
- Cadmium Sulfide (CdS)

Part No.	Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing			
		Vp	mW	Dark	Light	A	B			1	10	100	1000
120299	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	\$1.69	\$1.52	\$1.22	\$0.99
	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.20	1.09	.99
	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.34	1.21	.99
	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	.78	.70	.64	.58
	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.49	1.35	1.19	1.09
	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.69	.65	.59	.55
	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.34	1.07	.96
	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.29
	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.29
	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.69	1.52	1.22	.91

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

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For more Toshiba Optocouplers visit [www.Jameco.com](http://www.Jameco.com)

Optoisolators/Optocouplers				* Minimum order 10 pieces		
Part No.	Product No.	Pkg.	Description	1	10	100
783623	4N26M	DIP-6	Gen. purpose phototransistor opto.	\$.51	\$.306	\$.258
783666	4N35SM	SOIC-6	Gen. purpose phototransistor opto.	*.312	.29	
783674	4N35TVM	DIP-6	Gen. purpose phototransistor opto.	*.299	.251	
867261	6N136S	SOIC-8	Single ch. high-speed transistor opto.	.90	.78	.66
783691	6N137S	SOIC-8	Single ch. high-sp. 10Mbits/s logic gate opto.	.90	.80	.66
785151	CNY171M	DIP-6	Phototransistor opto.	*.297	.275	
785178	CNY172M	DIP-6	Phototransistor opto.	*.315	.293	
871199	H11A1M	DIP-6	Gen. purpose phototransistor opto.	*.299	.278	
785725	H11AV1M	DIP-6	Phototransistor opto.	.65	.505	.362
785733	H11AV2AM	DIP-6	Phototransistor opto.	*.418	.38	
785741	H11B1S	SOIC-6	Photodarlington opto.	*.317	.294	
785750	H11B25S	DIP-6	Photodarlington opto.	*.311	.262	
785768	H11D1S	SOIC-8	High-voltage phototransistor opto.	.65	.539	.428
785776	H11F1S	SOIC-6	Photo FET opto.	2.55	2.30	1.94
871341	H11L1M	DIP-6	Optoisolator logic output	.78	.70	.60
871367	H11L1SM	SOIC-6	Optoisolator logic output	.82	.68	.541
871244	H11A817ASD	SOIC-4	Phototransistor optocoupler	★	Call	Call
871261	H11A817C	DIP-4	Phototransistor optocoupler	★	Call	Call
785717	H11A817CSD	SOIC-4	Phototransistor optocoupler	★	Call	Call
871287	H11A817D	DIP-4	Phototransistor optocoupler	★	Call	Call
871308	H11A814A	DIP-4	Phototransistor optocoupler	★	Call	Call
785792	H22B3	4-pin sld	Photodarlington optical interrupter switch	.98	.87	.76
871421	HCPL2531	DIP-8	Dual ch. high-speed transistor opto.	1.79	1.65	1.39
785805	HCPL2531S	SOIC-8	Dual ch. high-speed transistor opto.	1.95	1.83	1.73
871447	HCPL2601S	SOIC-8	Single ch. high-speed 10Mbit/s logic gate opto.	1.45	1.33	1.12
785813	HCPL2630	DIP-8	Dual ch. high-speed 10Mbit/s logic gate opto.	2.39	1.92	1.68
871463	HCPL2631	DIP-8	Dual ch. high-speed 10Mbit/s logic gate opto.	2.35	1.87	1.68
785821	HCPL2631S	SOIC-8	Dual ch. high-speed 10Mbit/s logic gate opto.	1.95	1.78	1.50
785830	HCPL2730	DIP-8	Dual ch. low-imp. curr. high-gain split darl. opto.	1.79	1.65	1.39
871498	HCPL2731	DIP-8	Dual ch. low-imp. curr. high-gain split darl. opto.	1.89	1.71	1.44
873493	MOC207M	SOIC-8	Optocoupler transistor output	★	Call	Call
787288	MOC70P2	4-pin sld	Phototrans. optical interrupter switch	.95	.88	.75
698912	MOC3010M	DIP-6	Random-phase triac driver output optoisolator	*.367	.344	
698947	MOC3031M	DIP-6	Zero-cross Triac driver output optoisolator	.64	.60	.56
698955	MOC3032M	DIP-6	Zero-cross Triac driver output optoisolator	.71	.66	.53
698963	MOC3042M	DIP-6	Zero-cross Triac driver output optoisolator	.86	.76	.61
787229	MOC3061SM	SOIC-6	Zero-cross phototriac driver opto.	.79	.71	.60
787237	MOC3062VM	DIP-6	Zero-cross phototriac driver opto.	.79	.73	.62
698971	MOC3063M	DIP-6	Zero-cross phototriac driver opto.	*.466	.437	
698998	MOC3083M	DIP-6	Zero-cross Triac driver output optoisolator	1.07	1.03	.71
787261	MOC3163M	DIP-6	Zero-cross phototriac driver opto.	1.65	1.29	.96
787309	MOC805030W	DIP-6	Photodarlington opto. (no base connect.)	*.408	.344	
787317	MOC8100M	DIP-6	Gen. purpose phototransistor opto.	*.324	.245	
787325	MOC8103S	SOIC-6	Phototransistor opto.	*.374	.348	
787333	MOC8104S	SOIC-6	Phototransistor opto.	*.311	.29	

★ Please call or visit our website for minimum order quantity and pricing



## Optocouplers

Lower \$\$\$

Part No.	Product No.	Pkg.	Description	1	10	100
1582891	ITC117P	DIP-16	Integrated telecom circuit	\$3.95	\$3.22	\$3.01
1583105	LDA100S	DIP-6	Opto. w/ snl or darlington trans. output	.82	.70	.472
1583113	LOC110	DIP-8	Single linear optocoupler	2.39	1.67	1.27
1583121	LOC110S	SOIC-8	Single linear optocoupler	4.85	3.34	2.47
1583130	LOC111	DIP-8	Single linear optocoupler	2.79	1.96	1.48
1583156	PD2401	DIP-16	AC solid state switch w/ optical coupling	5.75	4.80	4.44
1583172	PS1201	SIP-8	AC pwr switch, dual pwr SCR outputs	6.49	4.50	3.40
1583181	TS117	DIP-8	1-Form-A relay w/ optocoupler	3.39	2.34	1.77
1583199	TS117S	SOIC-8	1-Form-A relay w/ optocoupler	3.39	2.36	1.77
1583201	TS117STR	SOIC-8	1-Form-A relay w/ optocoupler	3.39	2.36	1.79

\* 1-Form-A solid state relay, bridge rectifier, darlington transistor & optocoupler



## Photodiodes

NEW

Part No.	Product No.	Package	Description	1	10	100
1621132	BPW34	DIL-2	Photodiode	\$.74	\$.66	\$.58
1621159	BPW34FA	DIL-2	Photodiode w/ Daylight Filter	1.53	1.43	1.34

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

◆ RoHS compliant product

◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## TOSHIBA Optocouplers

### Transistor Output

				* Minimum order 10 pieces		
Part No.	Product No.	Package	Curr. Trans Ratio Min. (%) (VCE@F)	Collector Bkdn Volt.	Iso. Volt. (Vrms)	1 10 100
832587	4N35SHORT	DIP-6	100	10V@10mA	30	2500 ..... \$.51 \$.382 \$.318
833310	TLP124BV	SOIC-4	200	5V@1mA	80	3750 ..... .91 .68 .508
833707	TLP281-4(GB,F)	SOIC-16	100	5V@5mA	80	2500 ..... 1.75 1.39 1.04
833862	TLP620(F,T)	DIP-4	50	5mA	55	5000 ..... .59 .441 .331
833897	TLP620(GB,F,T)	DIP-4	100	5mA	55	5000 ..... .79 .61 .47
833951	TLP620-4	DIP-16	50	5mA	55	5000 ..... 2.29 1.84 1.38
833993	TLP621	DIP-4	50	5mA	55	5000 ..... ★ Call Call
834021	TLP621(BLF,T)	DIP-4	200	5mA	55	5000 ..... .55 .412 .309
834056	TLP621(F,T)	DIP-4	50	5V@5mA	55	5000 ..... .51 .383 .287
834072	TLP621(GB,F,T)	DIP-4	100	5mA	55	5000 ..... .51 .383 .287
765222	TLP621-4(F)	DIP-16	50	5mA	55	5000 ..... 2.05 1.67 1.47
834128	TLP624	DIP-4	100	1mA	55	5000 ..... .95 .71 .53
834275	TLP631GB	DIP-6	100	5V@5mA	55	5000 ..... .74 .62 .49

★ Please call or visit our website for minimum order quantity and pricing

### High Speed Output

				* Minimum order 10 pieces		
Part No.	Product No.	Package	Output Curr. Typ. Data Max. Supply Isolation Rate (bits/s) Voltage Voltage	1	10	100
764941	6N137F	DIP-8	13mA 10M 5V	2500	★	Call Call
765089	TLP115A	SOIC-6	13mA 10M 5V	2500	3.15	2.50 1.94
765126	TLP2200F	DIP-8	6.4mA 5M 20V	2500	2.75	2.53 2.37
833619	TLP2531(F)	DIP-8	3.04mA 1M 15V	2500	2.69	2.14 1.67
765169	TLP2630(F)	DIP-8	13mA 10M 5V	2500	2.19	1.76 1.73
833678	TLP2631F	DIP-8	13mA 10M 5V	2500	2.25	1.79 1.39

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### Thyristor Output

Part No.	Product No.	Package	LED Trigger Curr. Max.	Blocking Voltage	Isolation Voltage	1 5 50
833408	TLP161(U,C,F)	SOIC-4	10mA	600	2500	\$.89 \$.74 \$.59
833731	TLP3062S	DIP-5	10mA	600	5000	.77 .58 .51
765185	TLP525G(F)	DIP-4	10mA	400	2500	.89 .74 .59
765206	TLP525G-2(F)	DIP-8	10mA	400	2500	1.49 1.19 .89

### Darlington Transistor

Part No.	Product No.	Package	LED Trigger Curr. Max.	Blocking Voltage	Isolation Voltage	1 5 50
834232	TLP627(F,T)	DIP-4	1000	300	5000	\$.81 \$.68 \$.55
834259	TLP627-2FT	DIP-8	1000	300	5000	★ Call Call
765257	TLP627-4F	DIP-16	1000	300	5000	2.25 1.79 1.34

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## LITEON Optocouplers

For more LiteOn Optocouplers visit [www.Jameco.com](http://www.Jameco.com)

### Photo Transistor Output

				* Minimum order 10 pieces		
Part No.	Product No.	Package	BV <sub>CEO</sub>	Isolation Volt. (RMS)	Curr. Trans. Ratio (Min.)	1 10 100
790671	LTV-3567	Mini-flat 4	80	3750	50	★ Call Call
790698	LTV-3571	Mini-flat 4	35	3750	50	★ Call Call
878243	LTV-817	DIP-4	35	5000	50	*.177 .139
790823	LTV817S-TA1	SOIC-4	35	5000	50	*.175 .139
790719	LTV-817S-TA1	SOIC-4	35	5000	50	★ Call Call
878260	LTV-827	DIP-8	35	5000	50	*.353 .276
790751	LTV-845	DIP-16	35	5000	600	.77 .72 .68
790778	LTV-846S	SOIC-16	80	5000	50	.86 .72 .57
878286	LTV-847	DIP-16	35	5000	50	.83 .73 .55
790794	LTV-847S	SOIC-16	35	5000	50	.86 .72 .57
878163	CNY17-3S	SOIC-6	70	5000	100	*.249 .187
878180	CNY17F-3	DIP-6	70	5000	100	*.145 .138

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### Photo Transistor Output/AC Input

				* Minimum order 10 pieces		
Part No.	Product No.	Package	BV <sub>CEO</sub>	Isolation Volt. (RMS)	Curr. Trans. Ratio (Min.)	1 10 100
878227	LTV-814	DIP-4	35	5000	20	*.245 \$.194
790735	LTV-824	DIP-8	35	5000	20	.59 .49 .386

### Phototriac Output

Part No.	Product No.	Package	VDRM (V) Min.	Isolation Volt. (RMS)	Trigger Curr. (mA)	1 5 50
878307	MOC3023	DIP-6	400	5000	±5	\$.53 \$.486 \$.418

## Optoisolators

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		SOIC & SOP		Quantity SAVE		
Part No.	Product No.	Package	Description	1	10	100
40985	4N25	DIP-6	Diode, NPN phototransistor	.24	.22	.19
671808	4N25S	SOIC-6	General purpose phototransistor	.31	.233	.13
41005	4N26	DIP-6	Diode, NPN phototransistor	.24	.18	.135
671816	4N26S	SOIC-6	General purpose phototransistor	.29	.233	.131
41013	4N28	DIP-6	Diode, NPN phototransistor	.25	.213	.16
41021	4N32	DIP-6	Diode, NPN photodarlington	.26	.221	.166
41030	4N33	DIP-6	Diode, NPN photodarlington	.29	.28	.25
41056	4N35	DIP-6	Diode, NPN phototransistor	.29	.26	.235
671832	4N35S	SOIC-6	General purpose phototransistor	.31	.24	.18
277510	6N135	DIP-8	High-speed transistor optocoupler	.63	.54	.405
42471	6N136	DIP-8	High speed transistor optocoupler	.75	.64	.52
113911	6N137	DIP-8	High-speed logic optocoupler	.65	.51	.48
42489	6N138	DIP-8	Low input curr., hi-gain split darlington	.77	.64	.48
113929	6N139	DIP-8	High-speed, high-gain darlington	.66	.56	.45
18825	H11AA1	DIP-6	Dual infrared diode, NPN phototransistor	.62	.52	.39
320434	H11AA2	DIP-6	AC input phototransistor optocoupler	.35	.286	.26
113996	H11F1	DIP-6	Isolated FET	1.69	1.39	1.10
113988	H11L1	DIP-6	Schmitt trigger output photocoupler	.63	.58	.56
320207	H11L2	DIP-6	Photo FET optocouplers	.66	.56	.45
1628490	ILD2	DIP-8	Dual channel phototransistor Infineon	.64	.60	.56
1628668	ILQ1	DIP-16	Quad channel phototransistor Infineon	1.85	1.63	1.41
1628676	ILQ2	DIP-16	Quad channel phototransistor Infineon	1.79	1.57	1.34
1628828	ILQ74	DIP-16	Quad channel phototransistor Infineon	1.89	1.66	1.43
1696353	IL207AT	SOIC-8	Phototransistor diode, Infineon	★	Call	Call
114083	ISQ203	DIP-16	Quad channel NPN phototransistor	2.95	2.66	1.99
24918	MCT6	DIP-8	Dual channel NPN phototransistor	.68	.55	.42
672317	MCT61	DIP-8	Dual channel NPN phototransistor	.50	.389	.323
672325	MCT62	DIP-8	Dual channel NPN phototransistor	.57	.50	.36
672245	MOC205	SOIC-8	Optocoupler phototransistor	.63	.478	.27
672253	MOC206	SOIC-8	Optocoupler phototransistor	.49	.359	.28
672261	MOC207	SOIC-8	Optocoupler phototransistor	.41	.329	.272
672309	MOC217	SOIC-8	Optocoupler phototransistor	.64	.486	.278
26278	MOC3010	DIP-6	Bilateral triac driver	.56	.49	.41
95020	MOC3011	DIP-6	Bilateral triac driver	.68	.51	.383
671859	MOC3012S	SOIC-6	Random phase triac driver	.55	.40	.34
277780	MOC3020	DIP-6	Random phase triac driver	.52	.398	.31
95038	MOC3021	DIP-6	Bilateral triac driver	.56	.52	.47
671883	MOC3022S	SOIC-6	Random phase triac driver	.53	.45	.269
277819	MOC3023	DIP-6	Random phase triac driver	.46	.419	.353
671904	MOC3023S	SOIC-6	Random phase triac driver	.53	.45	.349
26294	MOC3031	DIP-6	Zero crossing triac driver	.66	.60	.54
277835	MOC3041	DIP-6	Zero crossing triac driver	.75	.62	.465
672165	MOC3081	DIP-6	Zero crossing triac driver	1.05	.91	.66
672181	MOC3163	DIP-6	Zero crossing phototriac driver	1.38	1.11	.79
672202	MOC8102	DIP-6	Optocoupler phototransistor	.45	.381	.306
672211	MOC8103	DIP-6	Optocoupler phototransistor	.45	.38	.24
672229	MOC8104	DIP-6	Optocoupler phototransistor	.26	.252	.242
672237	MOC8106	DIP-6	Optocoupler phototransistor	.50	.378	.217
672106	MOC8111	DIP-6	Phototransistor, no base	.30	.26	.182
672122	MOC8112	DIP-6	Phototransistor, no base	.30	.26	.21
672131	MOC8113	DIP-6	Phototransistor, no base	.30	.259	.181
672069	MOC8021	DIP-6	Photodarlington optocoupler	.53	.44	.35
672149	MOC8050	DIP-6	Photodarlington optocoupler	.59	.49	.32
1623891	PC357J000F	Mini-4	Gen. purpose photocoupler, Sharp	.50	.42	.33
1623971	PC817XJ000F	DIP-4	Gen. purpose photocoupler, Sharp	★	.41	.30
1623980	PC844XJ000F	DIP-16	4-ch AC input photocoupler, Sharp	1.46	1.16	1.16
1623998	PC847XJ000F	DIP-16	4-ch general purpose photocoupler, Sharp	1.33	1.11	.89
320653	PS2501-1	DIP-4	Single transistor photocoupler	.20	.19	.185
671912	PS2501L-1	SOP-4	Single transistor photocoupler	.38	.329	.282
320661	PS2501-2	DIP-8	Single transistor photocoupler	.51	.459	.418
160338	PS2501-4	DIP-16	Photo darlington & transistor/detector	1.09	1.02	.88
320696	PS2502-2	DIP-8	Darlington photocoupler	1.42	1.16	1.05
160362	PS2502-4	DIP-16	Photo darlington & transistor/detector	1.75	1.61	1.39
320725	PS2505-4	DIP-16	High isolation voltage photocoupler	1.98	1.59	1.43
320805	PS2532-4	DIP-16	High collector to high emitter volt. photocoupler	2.34	2.25	2.08
785813	HCPL2630	DIP-8	Dual chan. high spd. 10MB logic gate optocoupler	2.39	1.92	1.68

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## AVAGO Optocouplers

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\* Minimum order 10 pieces

Part No.	Product No.	Package	Description	1	10	100
1547876	4N35-000E	DIP-6	Phototransistor optocoupler gen. purp.	★	\$ .20	\$ .187
1583210	4N46-000E	DIP-6	High gain darlington output opto.	2.39	1.92	1.63
1548107	6N136-000E	DIP-8	Single ch., high-speed opto.	1.11	1.03	.97
1583261	6N136-020E	DIP-8	Single ch., high-speed opto.	1.39	1.19	.95
1548131	6N137-000E	DIP-8	High CMR, hi-spd TTL compatible opto.	1.24	1.18	.87
1583287	6N137-300E	DIP-8	High CMR, hi-spd TTL compatible opto.	1.29	1.03	.86
1583308	6N138-000E	DIP-8	Single ch. low input current, high gain opto.	1.15	.87	.80
1583316	6N139-000E	DIP-8	Single ch. low input current, high gain opto.	1.19	.89	.81
1549441	HCPL-060L-000E	SOIC-8	Hi-spd LVTTTL compatible 3.3V opto.	1.99	1.84	1.72
1549644	HCPL-063N	SOIC-8	HCMS compat., dual-ch., high-CMR, 10MBd opto. (0.400" W)	7.65	7.12	6.67
1549003	HCNW136	DIP-8	Single ch., hi-spd opto. (0.400" W)	1.99	1.84	1.72
1549020	HCNW137	DIP-8	High CMR, hi-spd TTL compat. opto. (0.400" W)	2.35	2.16	2.02
1549054	HCNW139	DIP-8	Low input curr., high gain opto. (0.400" W)	2.65	2.46	2.30
1550493	HCPL-314J	SOIC-16	0.6A output current IGBT gate drive opto.	2.99	2.76	2.58
1550549	HCPL-316J-000E	SOIC-16	2.5A gate drv opto. w/ integ. desat. detect. & fault status	5.05	4.71	4.41
1549265	HCPL-0453	SOIC-8	Single ch., hi-spd opto.	2.05	1.88	1.76
1549329	HCPL-0501-000E	SOIC-8	Single ch., hi-spd opto.	1.43	1.33	1.25
1549361	HCPL-0531	SOIC-8	Dual ch., hi-spd opto.	3.45	3.21	3.01
1550995	HCPL-M601	SO-5	High CMR, hi-spd logic gate opto.	2.19	2.02	1.89
1549530	HCPL-0630-000E	SOIC-8	Dual ch. high CMR, hi-spd TTL compat. opto.	4.49	4.07	3.82
1549741	HCPL-0710-000E	SOIC-8	40ns propagation delay, CMOS opto.	5.25	4.79	4.49
1549839	HCPL-0731	SOIC-8	Dual ch. low input current, high gain opto.	4.09	3.72	3.49
1549978	HCPL-2211	DIP-8	Sngl ch., very high CMR, wide Vcc logic gate opto.	3.05	2.80	2.63
1550039	HCPL-2231-300E	SOIC-8	Sngl ch., very high CMR, wide Vcc logic gate opto.	6.79	6.36	5.97
1550047	HCPL-2232	DIP-8	Dual ch., very high CMR, wide Vcc logic gate opto.	8.99	8.18	7.67
1550143	HCPL-2530	DIP-8	Dual ch. hi-spd optocoupler	2.09	1.93	1.81
1550186	HCPL-2601	DIP-8	Sngl ch., high CMR, hi-spd TTL compat. opto.	1.69	1.54	1.44
1550282	HCPL-2630-000E	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto.	3.09	2.87	2.69
1550311	HCPL-2630-300E	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto.	3.15	2.92	2.73
1550320	HCPL-2631	DIP-8	Dual ch., high CMR, hi-spd TTL compat. opto.	3.35	3.10	2.91
1550389	HCPL-2730-000E	DIP-8	Dual ch. low input current, high gain opto.	2.59	2.41	2.26
1550581	HCPL-3700-000E	DIP-8	AC/DC to logic interface opto.	3.49	3.26	3.06
1584167	HCPL-3700-300E	SOIC-8	AC/DC to logic interface opto.	3.19	2.64	2.43
1584175	HCPL-3760-000E	DIP-8	AC/DC to logic interface opto.	4.95	4.07	3.95
1584183	HCPL-4100-000E	DIP-8	Optically coupled 20mA current loop transmitter	5.69	4.75	4.61
1584191	HCPL-4200-000E	DIP-8	Optically coupled 20mA current loop transmitter	5.69	4.74	4.61
1584204	HCPL-4503-000E	DIP-8	Sngl ch. hi-spd optocoupler	1.85	1.49	1.34
1550661	HCPL-4504-000E	DIP-8	Hi-spd, high CMR optocoupler	2.09	1.93	1.81
1584212	HCPL-7601-000E	DIP-8	CMOS/TTL compat. low inp. curr., hi-spd, high CMR opto.	2.65	2.20	2.02
1584221	HCPL-7710-000E	DIP-8	40ns propagation delay, CMOS opto.	4.09	3.36	3.26
1584239	HCPL-7710-300E	DIP-8	40ns propagation delay, CMOS opto.	4.09	3.40	3.23
1584247	HCPL-7800-300	SOIC-8	Isolation amplifier optocoupler	8.29	6.80	6.34
1584263	HCPL-7800A-300E	SOIC-8	Isolation amplifier optocoupler	10.79	8.97	8.24
1550881	HCPL-7840-300E	SOIC-8	Isolation amplifier optocoupler	5.49	5.10	4.78
1584280	HCPL-788J-000E	SOIC-16	Isolation amplifier optocoupler	6.59	5.44	4.99



## Hermetically Sealed Optocouplers

Part No.	Product No.	Pkg.	Description	1	10	100
1583324	8102801EC	DIP-16	2-channel, high speed, high CMR logic gate opto.	\$59.95	\$55.85	\$54.85
1583332	8102802PC	DIP-8	2-channel, high speed, high CMR logic gate opto.	63.59	58.64	57.59
1583228	5962-8876901PC	DIP-8	2-channel low IF, wide VCC, logic gate opto.	102.25	101.67	101.08
1583236	5962-8978501PA	DIP-8	2-channel low IF, wide VCC, high gain opto.	67.35	66.97	66.58
1583244	5962-8981001PC	DIP-8	1-channel low IF, wide VCC, high gain opto.	85.89	80.17	75.15
1583252	5962-9085501HPC	DIP-8	1-channel, high speed, high CMR logic gate opto.	51.49	47.48	46.65

## Slotted Optical Switches

4-pin w/ tab

Part No.	Cross Ref.	Pkg.	Description	1	10	100
114091	H21A1	4-pin w/ tab	Single channel slotted interrupter	\$ .75	\$ .70	\$ .60
278011	H21A2	4-pin w/ tab	Phototransistor optical interrupter	1.14	.82	.67
320901	H21A3	4-pin w/ tab	Phototransistor optical switch	.84	.74	.57

Color Code Legend  
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## Fiber Optic Transceivers

The HFBR-5701 (IEEE802.3 1000BASE-SX/fiber channel)/5710 (IEEE802.3 1000BASE-SX) are optical transceivers that are compliant with the specifications set forth in the IEEE802.3 (100BASE-SX), fiber channel (100-M5-SN-1, 100-M6-SN-1), and the small form factor pluggable (SFP). Its primary application is servicing Gigabit Ethernet and fiber channel links between optical networking equipment. The HBCU-5710R electrical transceiver offers full duplex throughput of 1000 Mb/s by transporting data over shielded and unshielded twisted pair category 5 cable with 5-level PAM (Pulse Amplitude Modulation) signals. The 1000BASE-T module takes signals from both the twisted pair category 5 cable and the SerDes interface.



Part No.	Product No.	Description	1	10	100
1553336	HFBR-53A5VEM	850nm, SC duplex 3.3V, E shield	\$150.99	\$122.99	\$114.79
1548810	HBCU-5710R	P1000Base-T, low voltage (3.3V) ...	164.99	153.82	144.21
1553352	HFBR-5710LP	For gigabit ethernet	159.99	159.89	149.23
1584722	HFBR-5701LP	For gigabit ethernet & fiber ch.	155.99	145.60	136.50



## Miniature Link Package

Designed to provide cost effective, high performance fiber optic communication links for information systems and industrial applications with link distances of up to 2.7km. With the HFBR-24X6, the 125MHz analog receiver, data rates of up to 160MBd are attainable. Directly compatible with popular industry standard connectors ST, SMA, SC, and FC. Completely specified with multiple fiber sizes. Applications: LAN, digital cross connect links, central office switch/PBX links, video links, modems and multiplexers, industrial control links.



### Transmitter

Part No.	Product No.	Description	1	10	100
1584562	HFBR-1404Z	SMA, Tx high power	\$17.95	\$15.41	\$14.45
1552632	HFBR-1412TM	ST, Tx std power, threaded/metal port	20.65	19.26	18.06
1584571	HFBR-1412TZ	ST, Tx std power, threaded port	17.95	15.41	14.45
1584589	HFBR-1412Z	ST, Tx std power	17.95	15.41	14.45
1552641	HFBR-1414	ST, Tx high power	20.65	19.27	18.06
1584597	HFBR-1414TZ	ST, Tx high power, threaded port	22.09	16.57	15.30

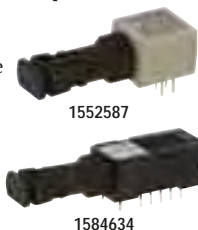
### Receiver

Part No.	Product No.	Description	1	10	100
1584642	HFBR-2402Z	SMA, Rx, 5MBd, TTL output	\$17.95	\$16.86	\$14.45
1552894	HFBR-2412	ST, Rx, 5MBd, TTL output	20.65	19.25	18.06
1552907	HFBR-2412T	ST, Rx, 5MBd, TTL output, threaded port	21.19	19.74	18.51
1552966	HFBR-2416	ST, Rx, 125MHz, analog, threaded port	21.19	19.74	18.51



## 1300nm Discrete Optical Components

HFBR-1312/2316 series transmitter/receiver provide low cost fiber optic links. Signal rates over 155MBd, link distances over 5km, DIP panel mountable ST and SC connector receptacles, auto insertable and wave solderable, specified with 62.5/125 5m and 50/125 5m fiber. Compatible with HFBR-0400 series. HFBR-1119/2219 series data links are high performance for serial optical data communications specified at 266MBd, designed for 50 or 62.5  $\mu$ m core multimode optical fiber at 1300nm.



Part No.	Product No.	Data Rate (MBd)	Distance (m)	Connector	1	10	100
1552587	HFBR-1312T	32/160	5000	ST	\$61.55	\$57.40	\$53.81
1552595	HFBR-1312TZ	32/160	5000	ST	65.95	61.50	57.40
1552851	HFBR-2316T	32/160	5000/2000	ST	61.55	57.40	53.81
1552860	HFBR-2316TZ	32/160	5000/2000	ST	69.95	61.50	57.40
1584546	HFBR-1119TZ	266	1500	ST	80.45	67.08	64.68
1584634	HFBR-2119TZ	266	1500	ST	80.45	67.08	64.68

Find more Fiber Optic products online at [www.Jameco.com](http://www.Jameco.com)



## Versatile Link Package

For more Avago Fiber-Optics visit [www.Jameco.com](http://www.Jameco.com)

The most cost effective family of fiber optics from AVAGO consists of discrete transmitters and receivers based on 660nm technology. Optimized from 1mm plastic fiber and 200 $\mu$ m HCS™ fiber.



### Transmitters

Part No.	Product No.	Data Rate MBd	Distance (M)		Op. Temp. °C	Pricing		
			POF	HCS		1	10	100
1584600	HFBR-1521Z	5	20	—	-40 - 85	\$11.29	\$8.47	\$7.83
1584618	HFBR-1522Z	1	45	—	-40 - 85	11.29	8.47	7.83
1552739	HFBR-1523	40kBd	110	—	-40 - 85	10.49	9.86	9.24
1552763	HFBR-1527	32/125	40/30	1000/100	0 - 70	12.95	10.43	9.91
1552771	HFBR-1528	10	100	900	-40 - 85	11.49	11.62	10.89
1552798	HFBR-1532	1	45	—	0 - 70	11.69	10.82	10.10

### Receivers

Part No.	Product No.	Data Rate MBd	Distance (M)		Op. Temp. °C	Pricing		
			POF	HCS		1	10	100
1584669	HFBR-2521Z	5	20	—	-40 - 85	\$11.29	\$8.47	\$7.83
1553037	HFBR-2522	1	45	—	-40 - 85	10.85	10.10	9.47
1553061	HFBR-2524	1	10	—	0 - 70	10.85	10.10	9.47
1553070	HFBR-2526	32/125	40/30	1000/100	0 - 70	17.29	16.24	15.15
1553088	HFBR-2528	10	100	900	-40 - 85	19.49	18.18	17.05
1584677	HFBR-2531Z	5	20	—	0 - 70	11.29	8.47	7.83
1553109	HFBR-2532	1	45	—	0 - 70	10.49	9.85	9.23



## 2 & 3 Channel Enclosed Encoders

Lower \$\$\$

HEDS-5500/5540 are high-performance optical increment encoders. 2/3 channel digital outputs and single 5V supply input are accessed through five 0.025" square pins on 0.1" centers.



- Operating temp.: -40°C to 100°C
- Quick assembly
- TTL compatible

Part No.	Product No.	Outputs	Counts/Rev.	Shaft Dia.	1	10	100
1584474	HEDM-5500SB06	2-ch	1000	1/4"	\$41.05	\$39.67	\$38.29
1584491	HEDS-5500SA06	2-ch	500	1/4"	53.75	46.97	44.65
1584503	HEDS-5500SA11	2-ch	500	4mm	59.39	53.48	50.09
1584511	HEDS-5505SA06	2-ch	500	1/4"	53.25	44.66	40.53
1584520	HEDS-5540SA05	3-ch	500	3/16"	41.05	39.67	38.29
1584466	HEDL-6540SB13	3-ch	1000	3/8"	174.69	163.06	152.87



## Plastic Optical Fiber Connectors

Lower \$\$\$

1553150

Part No.	Product No.	Description	1	10	100
1553150	HFBR-4501Z	Gray simplex connector/crimp ring	\$0.74	\$0.69	\$0.65
1553168	HFBR-4503	Gray simplex latching connector w/ ring	.64	.60	.56
1584685	HFBR-4505Z	Gray adapter (bulkhead/feedthrough)	.94	.84	.76
1584693	HFBR-4506Z	Parchment duplex conn. w/ crimp ring	1.05	.95	.86
1553205	HFBR-4513	Blue simplex latching conn. w/ crimp ring	.64	.60	.56
1553221	HFBR-4516	Gray duplex conn. w/ crimp ring	1.25	1.17	1.10
1584706	HFBR-4531Z	Black crimpless simplex non-latching conn.	.54	.48	.44
1584714	HFBR-4593Z	Polishing kit	3.69	3.30	2.96



## Panel Mount Optical Encoders

Lower \$\$\$

The HRPG series is a family of miniature panelmount optical encoders, also known as Rotary Pulse Generators (RPG) and digital potentiometers is designed to be mounted on a front panel and used as a rotary, data-entry device.

Blue Part No. = Limited Quantity Available



Part No.	Product No.	Description	1	10	100
1584984	HRPG-AD32\$13F	Pins front with bracket	\$25.15	\$22.68	\$20.37
1584992	HRPG-AS32\$11R	Pins rear with bracket	18.45	15.34	14.20








































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LEDs

**NEW**

\* Minimum order 10 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A*	B*						1	10	100
1767473	5372T3-5VLC 	1	Amber	PCB indicator, RA	T 3/4	—	0.2	0.13	0.1	5	4	565	—	\$1.35	\$1.16	\$1.10
1766323	4300F1LC 	2	Red	Solid state, red diffused	T1	0.119/3	0.175	0.95	0.1	1.8	1.8	635	50	*	.302	.274
1766366	4301F1/5 	3	Red/Green	Solid state, bi-color, white diffused	T1	0.119/3	0.175	1	0.1	1.8/2.1	12.6/3/7	660/565	—	.63	.51	.47
1766391	4302F5-5V 	4	Red	Red diffused	T1	0.119/3	0.175	1.06	0.1	5	8	635	60	*	.48	.412
1766438	4303F1 	5	Red	Solid state, red diffused	T1	0.119/3	0.24	1	0.1	2	10	650	90	*	.153	.145
1767191	5325F5 	6	Amber	PCB indicator, RA	T1	0.119/3	0.118	1		2.2	10	603	—	.88	.69	.49
1767422	5360F1 	7	Red	4-wide, PCB indicator, RA	T1	0.119/3	0.27	0.175	0.1	2	10	650	—	1.95	1.58	1.15
1767596	5600F1 	8	Red	PCB indicator, RA	T1	0.119/3	0.251	0.188	0.1	2	10	650	—	*	.371	.268
1767609	5600F5 	8	Green	PCB indicator, RA	T1	0.119/3	0.251	0.199	0.1	2.2	16	562	—	*	.408	.386
1767617	5600F5LC 	8	Green	PCB indicator, RA	T1	0.119/3	0.251	0.118	0.1	1.8	2.1	565	—	.56	.53	.50
1767633	5602F5-5V 	8	Green	PCB indicator, RA	T1	0.119/3	0.251	0.118	0.1	5	8	565	—	.73	.59	.43
1767684	5650F1 	8	Red	PCB indicator, RA	T1	0.119/3	0.29	0.13	0.1	2	10	650	—	*	.371	.268
1767713	5650F5 	9	Green	PCB indicator, RA	T1	0.119/3	0.29	0.113	0.1	2.2	16	562	—	*	.371	.268
1767781	5680F1/1 	10	Red	Bi-level, PCB indicator, RA	T1	0.119/3	0.39	0.175	0.1	2	10	650	—	.70	.57	.41
1767799	5680F5/5 	10	Green	Bi-level, PCB indicator, RA	T1	0.119/3	0.39	0.175	0.1	2.2	16	562	—	.71	.58	.42
1767836	5693F5/5-A 	11	Green	Tri-level, PCB indicator, RA	T1	0.119/3	0.6	0.145	0.1	2.2	10	562	—	2.25	1.84	1.33
1766340	4300H1LC 	12	Red	Solid state, red diffused	T1 3/4	0.197/5	0.34	1	0.1	1.8	2.3	635	50	*	.306	.29
1766411	4302H1-5V 	13	Red	Red diffused	T1 3/4	0.197/5	0.347	0.99	0.1	5	8	635	60	.56	.46	.42
1766471	4304H1 	13	Red	Solid state, red diffused	T1 3/4	0.197/5	0.331	0.945	0.1	2	6.3	650	65	*	.141	.13
1766497	4304H5 	13	Green	Solid state, green diffused	T1 3/4	0.197/5	0.331	0.945	0.1	2.1	10	563	75	*	.138	.131
1766542	4305H5 	13	Red	Non-diffused red	T1 3/4	0.197/5	0.342	0.945	0.1	2.1	68	650	30	*	.182	.173
1766673	4361H1-5 	14	Red/Green	Tri-color	T1 3/4	0.197/5	0.684	1.89	0.1	2.0/2.1	6.3/10	650/563	60	.56	.457	.419
1766948	5300H1/5 	15	Red/Green	PCB indicator, bi-color, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2.2	6	650/565	—	.83	.67	.49
1766956	5300H1LC 	15	Red	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	1.8	2.3	635	—	*	.449	.382
1766981	5300H5LC 	15	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	1.8	2.3	565	—	*	.47	.382
1766999	5300H6 	15	Blue	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	160	430	—	1.75	1.49	1.41
1767001	5300H7LC 	15	Yellow	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	1.9	2.1	585	—	.82	.64	.52
1767027	5302H1-5V 	15	Red	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	8	635	—	.65	.56	.43
1767035	5302H3-5V 	15	Amber	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	8	583	—	.76	.60	.48
1767043	5302H5-5V 	15	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	5	8	565	—	.73	.59	.43
1767051	5305H1/5 	16	Red/Green	Tri-color, PCB indicator, RA	T1 3/4	0.197/5	0.3	0.13	0.1	2.1	6.3/10	650/565	—	1.79	1.59	1.38
1767060	5306H1 	17	Red	PCB indicator, RA	T1 3/4	0.197/5	0.43	0.13	0.1	2	6.3	650	—	.61	.49	.40
1767086	5307H5 	15	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2.1	6.3	563	—	.69	.55	.40
1767254	5330H7 	18	Yellow	LED lamp assembly	T1 3/4	0.197/5	0.87	0.15	0.1	2.2	25	585	—	.61	.52	.40
1767300	5332H1 	19	Red	Vertical LED assembly	T1 3/4	0.197/5	0.19	0.15	0.1	2.1	68	650	—	.69	.55	.40
1767377	5338H7 	17	Yellow	PCB indicator, RA	T1 3/4	0.197/5	0.38	0.12	0.1	2.1	10	585	—	.82	.64	.52
1767481	5380H1 	18	Red	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2	6.3	650	—	.52	.424	.307
1767511	5380H5	20	Green	PCB indicator, RA	T1 3/4	0.197/5	0.24	0.13	0.1	2.2	10	563	—	.52	.424	.307
1767529	5381H1LC	21	Red	PCB indicator, straight	T1 3/4	0.197/5	0.45	0.13	0.1	1.8	2.3	635	—	*	.49	.387
1766690	4363D1/5	22	Red/Green	Solid state, tri-color	2mm x 5mm	—	0.199	1	0.1	1.9/2.1	3.5/4.0	635/565	50	.82	.78	.74

\* With integrated resistor

## ChicagoMiniature Mounting Clip

An economical mounting clip that installs quickly and provides secure mounting for T1 3/4 high dome LEDs such as 4301H, 4304H, 4305H or 4308H

- Material: black polypropylene
- Mounting hole: 0.250" diameter for panels up to 0.125" thick



**NEW**

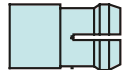
• Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1766526	4304MC	Mounting clip	\$ .137	\$ .108

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## ChicagoMiniature Panel Mount Lens

This lens provides quick and economical mounting plus electrostatic discharge protection for T1 3/4 high dome LEDs. Molded in fresnel rings spread light evenly, provides wide viewing angle. Use with 4305H, 4308H and 4310H





- Material: polycarbonate
- Mounting hole: snap into 0.248" Dia.

**NEW**

• Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1766614	4311	Red panel mount lens	\$ .287	\$ .26

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

Order 24/7 Toll Free 1-800-831-4242



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

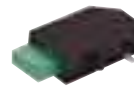


Fig. 13

## Dialight LEDs

NEW

\* Minimum order 5 pieces

Part No.	Product No.	Fig.	Emitting Color	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	WaveLength nm	Viewing Angle	Pricing		
						A"	B"						1	5	50
Standard LEDs															
1714339	521-9211F♣	1	Yellow	T1	0.119/3	0.175	1	0.1	2.1	10	585	60	*	\$.42	\$.377
1714355	521-9216F♣	1	Red	T1	0.119/3	0.175	1	0.1	2	7.4	635	60	*	.42	.377
1714371	521-9246F♣	1	Red	T1 ¾	0.197/5	0.346	1	0.1	2.2	7	635	60	.50	.44	.40
1714435	521-9250F♣	1	Green	T1 ¾	0.197/5	0.347	1	0.1	2.3	4.2	565	60	.50	.44	.40
PCB Indicators															
1716449	555-2001♣	2	Red	—	2mm	0.25	0.145	0.1	1.6	1.2	650	40	\$.80	\$.74	\$.69
1716465	555-2003♣*	2	Red	—	2mm	0.25	0.145	0.1	6.0	1.9	650	40	.89	.84	.78
1716676	555-4301♣	3	Green	—	2mm	0.25	0.135	0.1	2.4	1.0	565	40	3.69	3.39	3.09
1716641	555-4003♣*	3	Green	—	2mm	0.25	0.135	0.1	6.0	1.9	650	40	3.55	3.29	3.02
1716692	555-4303♣*	3	Yellow	—	2mm	0.25	0.135	0.1	4.7	2.5	565	40	3.65	3.37	3.09
1717695	571-0132F♣	4	Yellow/Green	—	2mm	0.339	0.118	0.1	2.1	12.6/8.7	585/565	38	1.32	1.02	1.00
1715411	551-0207♣	5	High efficiency Green	T1	0.119/3	0.28	0.145	0.1	2.1	16	563	45	.55	.50	.47
1715438	551-0207F♣	5	High efficiency Green	T1	0.119/3	0.28	0.145	0.1	2.1	16	563	45	.55	.50	.46
1715446	551-0209♣	5	High-efficiency Green	T1	0.119/3	0.25	0.145	0.1	2.1	16	563	45	.81	.68	.63
1715497	551-0407F♣	5	High efficiency Red	T1	0.119/3	0.28	0.145	0.1	2	10	650	45	.55	.49	.43
1715526	551-0507♣*	5	Red	T1	0.119/3	0.28	0.142	0.1	10	29	635	60	.84	.77	.71
1715569	551-0607F♣*	5	Green	T1	0.119/3	0.28	0.145	0.1	10	19	565	60	.84	.75	.65
1715606	551-1107♣	5	Red	T1	0.119/3	0.28	0.145	0.1	1.7	1.6	635	60	.72	.67	.62
1715681	551-1307F♣	5	High efficiency Yellow	T1	0.119/3	0.28	0.145	0.1	2.1	6.3	585	45	.72	.64	.56
1715753	551-3007♣	5	Red/Green (bi-color)	T1	0.119/3	0.28	0.145	0.1	2.0/2.1	4.7/10	635/565	50	1.32	1.22	1.12
1715770	551-3009♣	5	Red/Green (bi-color)	T1	0.119/3	0.25	0.145	0.1	2.0/2.1	2.5/3.7	635/565	50	1.22	1.14	1.05
1715809	551-3508♣	6	Red/Green (bi-color)	T1	0.119/3	0.28	0.100	0.1	2/2.1	4/4	630/560	80	1.49	1.39	1.28
1715972	553-0111F♣	7	Red/Red	T1	0.119/3	0.38	0.145	0.1	2.0/2.0	10/10	650	45	1.22	1.08	.95
1716035	553-0122F♣	7	High efficiency Green	T1	0.119/3	0.38	0.145	0.1	2	16	563	45	1.22	1.19	.95
1716078	553-0132F♣	7	Yellow/Green	T1	0.119/3	0.28	0.145	0.1	2.1/2.1	6.3/16	585/563	—	1.22	1.09	.95
1716094	553-0133F♣	7	Yellow/Yellow	T1	0.119/3	0.38	0.145	0.1	2.1	6.3	585	—	1.22	1.09	.95
1716115	553-0212F♣	7	Red/Green	T1	0.119/3	0.38	0.145	0.1	2/2.1	3.6/5.6	650/563	—	1.79	1.53	1.22
1716334	553-0711♣	7	Red/Green	T1	0.119/3	0.38	0.145	0.1	2.0/2.1	4.7/10	635/565	50	1.99	1.85	1.75
1717142	564-0100-222F♣	8	Green	T1	0.119/3	0.60	0.145	0.1	2.1	12.6	—	—	2.15	1.85	1.66
1717441	568-0102-222F♣	9	Green	T1	0.119/3	0.80	0.145	0.1	2.1	4.7	565	—	2.65	2.28	2.05
1717492	568-0701-111F♣	9	Red/Green	T1	0.119/3	0.80	0.145	0.1	2.0/2.1	2.5/3.7	635/565	—	3.89	3.37	3.03
1717855	591-3001-002F♣	10	Red/Green (SMT)	T1	0.119/3	0.198	—	—	2	6.5/8.0	628/570	—	2.19	1.97	1.79
1718090	597-3001-202F♣	11	Red (SMT)	SMT	SMT	0.138	—	—	2	10	630	120	.69	.61	.55
1715112	550-2407F♣	12	High efficiency Red	T1 ¾	0.197/5	0.24	0.145	0.1	2.2	2.2	650	—	.60	.49	.46
1715121	550-3007F♣	12	Red/Green (bi-color)	T1 ¾	0.197/5	0.24	0.145	0.1	1.8/2.1	90/40	660/565	60	1.17	1.05	.91
1715286	550-5207F♣	12	Green diffused	T1 ¾	0.197/5	0.24	0.145	0.1	2.2	34	563	50	*	.404	.36
1717290	566-0206F♣	13	Green	—	2mm x 5mm	0.28	0.110	0.1	2.2	4	565	110	.98	.84	.76

\* With integral resistor, 5V

## Dialight

### MicroLED Optopipe, Optical Light Pipe, Bi-Level

- Mounted in arrays spaced at 0.200" apart
- UL94V-0 compliance
- ESD protection • Wide viewing angle
- Allows bi-level SMT indicators
- Secures to PCB by press fit

NEW



Part No.	Product No.	Description	1	10	100
1714195	515-1061F	Bi-level optical light pipe .....	\$ .516	\$ .484	\$ .442

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product • This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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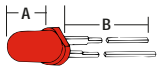


Fig. 1



Fig. 2



Fig. 3

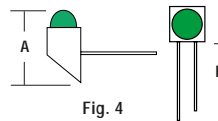


Fig. 4

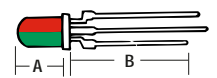


Fig. 5



Fig. 6

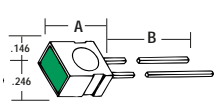


Fig. 7



Fig. 8



Fig. 9



Fig. 10

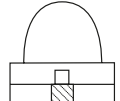


Fig. 11

## LITEON LEDs

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Minimum order 10 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	WaveLength nm	Viewing Angle	Pricing	
							A"	B"						10	100
697670	LTL-4251 R	1	Yellow	Diffused	T1	0.119/3	0.18	1.0	0.1	2.1	8.7	585	40	\$ .105	\$ .093
697688	LTL-4251N R	1	Yellow	Yellow diffused	T1	0.119/3	0.18	1.0	0.1	2.1	5.6	585	60	.105	.093
790145	LTL-1CHY R	1	Yellow	Yellow diffused	T1	0.122/3.1	0.205	1.0	0.1	2.1	8.7	588	60	.087	.078
790330	LTL-4256N R	1	Yellow	Water clear	T1	0.118/3	0.175	1.0	0.1	2.1	40	588	45	.105	.094
790129	LTL-1CHE R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.205	1.0	0.1	2.0	12.6	623	60	.072	.065
697565	LTL-4211N R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.18	1.0	0.1	2.0	8.7	635	60	.089	.079
697590	LTL-4221N R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.18	1.0	0.1	2.0	8.7	635	60	.051	.05
790250	LTL-4222N R	1	Hi-eff Red	Red transparent	T1	0.118/3	0.175	1.0	0.1	2.0	29	635	45	.105	.094
697581	LTL-4221 R	1	Red	Red diffused	T1	0.119/3	0.18	1.0	0.1	2.0	8.7	635	40	.089	.079
697629	LTL-4231 R	1	Green	Green diffused	T1	0.119/3	0.18	1.0	0.1	2.1	12.6	565	60	.072	.065
697637	LTL-4231N R	1	Green	Green diffused	T1	0.119/3	0.18	1.0	0.1	2.1	12.6	565	60	.105	.093
790111	LTL-16KG R	1	Green	Green diffused	T1	0.119/3	0.205	1.0	0.1	2.1	12.6	565	—	.042	.041
790137	LTL-1CHG R	1	Green	Green diffused	T1	0.119/3	0.205	1.0	0.1	2.1	12.6	569	60	.072	.065
790284	LTL-4231N-1 R	1	Green	Diffused	T1	0.118/3	0.175	1.0	0.1	2.1	5.6	565	60	.087	.078
790292	LTL-4231NLC R	1	Green	Diffused	T1	0.118/3	0.175	1.0	0.1	1.9	1.1	565	60	.126	.118
697645	LTL-4232N R	1	Green	Transparent	T1	0.119/3	0.18	1.0	0.1	2.1	40	565	45	.105	.093
697549	LTL-307Y R	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	29	585	—	.072	.065
697696	LTL-4253 R	1	Yellow	Diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	19	585	36	.105	.093
790102	LTL-10253W R	1	Yellow	Yellow diffused	T1 3/4	0.187/4.75	0.283	1.0	0.1	2.1	12.6	588	60	.071	.057
697522	LTL-307E R	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.0	19	635	50	.072	.065
790081	LTL-10223W R	1	Hi-eff Red	Red diffused	T1 3/4	0.187/4.75	0.283	1.0	0.1	2.0	60	623	60	.07	.056
697602	LTL-4223 R	1	Red	Diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.0	19	635	36	.105	.093
697611	LTL-4224 R	1	Red	Transparent	T1 3/4	0.197/5	0.34	0.9	0.1	2.0	90	635	16	.105	.093
790401	LTL2R3SEK R	1	Red	Clear	T1 3/4	0.197/5	0.33	1.0	0.1	2.0	3700	639	30	.25	.24
790348	LTL-4263 R	1	Red	Red diffused	T1 3/4	0.197/5	0.34	1.0	0.1	1.8	90	660	40	.184	.167
790225	LTL-307P R	1	Bright Red	Red diffused	T1 3/4	0.197/5	0.34	1.0	0.1	2.1	1.1	697	50	.045	.043
697514	LTL-2935JW R	1	Red/Green	Clear, bi-color	T1 3/4	0.195/5	0.34	0.9	0.1	2.0	90/90	660/565	60	.299	.24
697557	LTL-30EFJ	11	Red/Green	Bi-color diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	5.6/19	697/565	30	.288	.259
697573	LTL-4213 R	1	Red	Diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	3.7	697	36	.072	.065
697531	LTL-307G R	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	19	565	50	.072	.065
697653	LTL-4233 R	1	Green	Diffused	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	19	565	36	.105	.093
697661	LTL-4234 R	1	Green	Transparent	T1 3/4	0.197/5	0.34	0.9	0.1	2.1	60	565	16	.067	.058
790090	LTL-10233W R	1	Green	Green diffused	T1 3/4	0.187/4.75	0.28	1.0	0.1	2.1	40	569	60	.071	.057
790381	LTL-553-11 R	4	Green	Green diffused (PCB mnt indicator)	T1 3/4	0.189/4.8	0.236	0.32	0.1	2.1	40	569	60	.144	.14
790399	LTL-709E R	8	Hi-eff Red	Red diffused (1.8mm Dot Point Lamp)	1.8mm	0.2/1.8	0.30	0.236	0.1	2.0	12.6	623	38	.136	.122
697717	LTL-523-11 R	4	Hi-eff Red	Red diffused (PCB mnt indicator)	T1 3/4	0.189/4.8	0.13	0.35	0.1	2.0	60	635	60	.173	.157
697725	LTL-533-11 R	2	Green	Green diffused (PCB mnt indicator)	T1 3/4	0.189/4.8	0.13	0.35	0.1	2.1	40	565	60	.173	.157
790364	LTL-433HR R	6	Hi-eff Red	Red diffused (rectangular)	—	2mmx5mm	0.295	1.0	0.1	2.0	1.7	635	140	.118	.098
790356	LTL-433G R	6	Green	Green diffused (rectangular)	—	2mmx5mm	0.295	1.0	0.1	2.1	1.7	565	140	.116	.098
697813	LTST-C190YKT R	9	Yellow	Clear	SMD 0603	—	0.03	0.06	—	2.1	6	585	130	.074	.067
697805	LTST-C190GKT R	9	Green	Water clear	SMD 0603	—	0.03	0.06	—	2.1	6	565	130	.074	.067
697784	LTST-C170KRKT R	9	Red	Water clear	SMD 0805	—	0.05	0.08	—	2.0	54	639	130	.125	.105
697768	LTST-C170GKT R	9	Green	Water clear	SMD 0805	—	0.05	0.08	—	2.1	6	565	130	.092	.082
697776	LTST-C170KGKT R	9	Green	Water clear	SMD 0805	—	0.05	0.08	—	2.0	35	574	130	.128	.118
697848	LTST-S220GKT R	9	Green	Clear	SMD 0805	—	0.05	0.08	—	2.1	10	565	130	★	Call
697733	LTST-C150CKT R	9	Red	Clear	SMD 1206	—	0.06	0.13	—	1.8	25	660	130	.112	.088
697750	LTST-C150KRKT R	9	Red	Water clear	SMD 1206	—	0.06	0.13	—	2.0	54	639	130	.122	.101
697741	LTST-C150GKT R	9	Green	Water clear	SMD 1206	—	0.06	0.13	—	2.1	6	565	130	.102	.081
697821	LTST-C930KGKT R	11	Green	Water clear	1.8mm Dome	0.07/1.8	0.09	0.13	—	2.0	600	574	25	.157	.138
697830	LTST-C930KRKT R	11	Red	Water clear	1.8mm Dome	0.07/1.8	0.09	0.13	—	2.0	850	639	130	.153	.128

★ Please call or visit our website for minimum order quantity and pricing.

Mounting Hardware listed on pages 58-59

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

R RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend			
New	Sale	Lower\$	QtySave

# Standard-Output & HLMP LEDs



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

More LEDs at [www.Jameco.com/Prod/LEDs](http://www.Jameco.com/Prod/LEDs)

# See page 51 for figures  
\* Minimum order 10 pieces

JAMECO  
ValuePro

## Standard-Output LEDs



Call for OEM PRICING - we carry major manufacturers.

Quantity SAVE

Optos

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333219	LY12340	1	Yellow	Yellow diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	585	112	*	\$.08	\$.063	\$.06
34657	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	2.3	15	585	36	*	.13	.11	.075
206480	LVY2041	1	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	*	.14	.12	.10
136282	LA44B/2I	3	Orange	Red diffused (dual)	T1	0.119/3	0.38	0.17	0.10	1.7	12	635	50	.47	.432	.375	.281
333171	HLMP-K155-JV	1	Red	Red clear	T1	0.119/3	0.19	1.04	0.10	1.6	3.0	660	45	*	.079	.078	.057
333851	UT6371-41-M1	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.7	63	660	47	*	.118	.077	.074
206498	LHR2041	1	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.0	350	660	30	*	.15	.12	.09
94529	LH2040	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	.21	.19	.15	.12
114673	LH2043	1	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	12	697	30	.21	.19	.152	.114
94553	LHG2062	1	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1	0.119/3	0.18	1.06	0.08	2.3	3 & 15	697/565	36	.30	.244	.195	.156
34606	LSG2040	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	*	.15	.11	.08
333201	LG12340	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	*	.096	.076	.072
136274	LA44B/2G	3	Green	Green diffused (dual)	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	.64	.544	.457	.357
175679	LVG2041	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	*	.078	.064	.052
114681	LVG2043	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	*	.078	.064	.039
137411	LVB2040	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	1.59	1.48	1.40	1.15
334457	LSB12640	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	—	1.00	.83	.80	.75
333383	UT63B1-41-M1A2	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.75	.72	.68	.66
34825	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	0.197/5	0.30	0.82	0.07	2.3	12	585	36	.21	.19	.15	.12
104264	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.38	.312	.249	.162
334108	UT1831-81-S	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	*	.118	.077	.074
333622	LHY3330/HO	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	350	595	40	.34	.298	.268	.242
334377	UT1841R-81	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	.098	.064	.061
333921	UT1844R-81-S	1	Hi-eff Red	Red clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	78.8	630	22	*	.098	.069	.049
34711	LEG3362	1	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1 3/4	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	.33	.28	.22	.19
333973	UT1871-81-M1	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	660	25	*	.098	.064	.061
94511	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	0.197/5	0.31	0.81	0.08	2.3	3	697	36	*	.17	.13	.10
104248	LA93B/H-1	4	Red	Red diffused (XC410R)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.26	.23	.19	.17
34745	LH3333	1	Red	Water clear (XC554R)	T1 3/4	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	*	.15	.11	.065
334182	LGH3362	5	Red/Green	White diff. bi-color/solid state <sup>1</sup>	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2.0 & 8.0	697/565	30	.28	.267	.176	.125
34673	LHG3392	5	Red/Green	White diff. bi-color/tri-state <sup>1</sup>	T1 3/4	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	.29	.264	.24	.168
34761	LG3330	1	Green	Green diffused (XC556G)	T1 3/4	0.197/5	0.31	0.79	0.09	2.3	12	565	36	*	.15	.14	.10
334086	LG13740	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.077	.074	.073
104256	LA93B/G-1	4	Green	Green diffused (XC410G)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	30	565	46	.26	.23	.19	.17
138691	LVB3330	1	Blue	Blue diffused	T1 3/4	0.197/5	0.34	0.98	0.10	4.8	10	430	36	1.75	1.58	1.26	1.05
137613	LSB13333	1	Blue	Water clear	T1 3/4	0.197/5	0.34	0.98	0.08	3.8	160	430	15	2.05	1.99	1.93	1.68
134332	LT18B3-81UR	1	Blue	Water clear (383UBC)	T1 3/4	0.197/5	0.30	0.93	0.10	3.8	350	428	20	1.89	1.70	1.60	1.44
34690	LFH3360	1	Red	Red diff. blinking (XC5410)	T1 3/4	0.197/5	0.30	0.94	0.07	3-12V	2.8	697	N/A	.49	.45	.39	.35
138683	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/4	0.394/10	0.40	1.04	0.10	2.0	100	660	32	.54	.486	.384	.288
98984	LVG3630	1	Green	Green diffused XJumbo (XC10G)	T3 1/4	0.394/10	0.40	1.07	0.08	2.3	40	565	32	.33	.312	.228	.156
333703	UT7321-81	7	Green	Green diffused rectangular	3.2 x 6.2	—	0.28	0.80	0.10	2.1	8.8	567	60	.23	.207	.146	.105

Dialight

MCD

Other Manufacturers — Great Deals

LITEON

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
693901	MCDL-5013GD	1	Green	Red diffused	T1 3/4	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	*	\$.096	\$.072	\$.06
658312	MSL-154DR	9	Red	Water clear	SMD1206	—	0.06	0.13	—	1.8	25	660	130	*	.12	.10	.09
658321	MSL-204DR	10	Red	Water clear	PLCC-2	—	0.11	0.13	—	1.8	50	657	120	.49	.45	.41	.37
692537	MSL-204G	10	Green	Water clear	PLCC-2	—	0.11	0.13	—	2.1	15	570	120	.49	.45	.35	.29
658355	MSL-204MB	10	Blue	Water clear	PLCC-2	—	0.11	0.13	—	3.5	120	468	120	1.09	.99	.89	.69
658347	MSL-204MW	10	White	Water clear	PLCC-2	—	0.08	0.13	—	3.5	400	—	120	1.09	.99	.89	.69

\*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 59

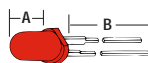
<sup>1</sup> Reverse polarity to change color

<sup>†</sup> Volt. shown is operating volt. range: no current limiting resistor required.

⊕ Blue Part No. = Limited Quantity Available



## HLMP Series LEDs



\* Minimum order 10 pieces

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing			
						A"	B"						1	10	100	1000
253278	HLMP-1301	Red	Diffused	T1	0.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	60	*	\$.12	\$.115	\$.103
253665	HLMP-1540	Green	Clear	T1	0.119/3	0.19	1.00	0.10	45 @ 20	2.2 @ 20	565	45	*	.17	.16	.133
253681	HLMP-1790	Green	Diffused	T1	0.119/3	0.19	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.26	.174	.14	.105
253753	HLMP-3301	Red	Diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	60	*	.18	.125	.112
253833	HLMP-4740	Green	Diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.20	.18	.144	.108

Ⓡ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Call for OEM PRICING – we carry major manufacturers.

## LEDTECH LEDs

• Typical DC forward current 20mA

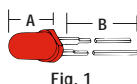
Ledtech is a QS9000 and  
ISO-9000 Certified Company

Fig. 1

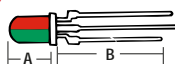


Fig. 2



152805



151416

\* Minimum order 10 pieces

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
156954	LT0373-41 R	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	46	\$.24	\$.22	\$.17	\$.14
156946	LT0362-25-D61 R	2	Red/Green	White diff. bi-color tri-state	T1	0.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	50	.29	.25	.19	.15
152751	LT0344R-41 R	1	Orange Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	36	.21	.19	.16	.12
152785	LT0341R-41 R	1	Orange Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	56	*	.17	.15	.12
156930	LT0321-41-HE R	1	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	56	*	.18	.11	.10
242844	LT1811-81 R	1	Red	Red diffused	T1 3/4	0.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	44	*	.12	.10	.06
1586189	UT1813-83-UJEI	1	Red	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	2.1 @ 20	5500 @ 20	632	25	.39	.35	.29	.19
152805	LT1873-81-UR	1	Red Ultra Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	12	*	.187	.161	.12
152856	LT1841R-81	1	Orange Red	Red diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	44	*	.117	.094	.071
156962	LT1823-81-HE R	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	19	.20	.17	.15	.12
1586197	UT4123-4D-UBC	1	Green	Water clear	T1 3/4	0.197/5	0.32	1.00	0.10	3.0 @ 10	2500 @ 10	500	28	.69	.65	.57	.47
152822	LT1821-81-HE R	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	41	*	.16	.12	.09
152831	LT1831-81-UR R	1	Ylw Ultra Bright	Yellow diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	41	.26	.24	.20	.14
White Diffused Backlight																	
151416	LT1F24-A2-S1 R	—	Green	Backlight, diffused	2.05"L x 0.78"H x 0.09"T			8-pin	4.2 @ 20	140 @ 20	567	—		\$3.19	\$2.87	\$2.29	\$1.72

Blue Part No. = Limited Quantity Available



## Medium-Output LEDs

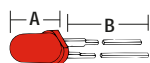


Fig. 1



Fig. 2

Quantity SAVE

\* Minimum order 10 pieces

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
334749	UT63B3-41-UR33 R	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	\$1.32	\$1.27	\$0.97	\$0.69
334746	CMD204UWC-JV R	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	2.35	2.29	1.71	1.54
206501	LVY3331 R	1	Yellow	Yellow transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.2	700	595	20	.26	.219	.175	.14
206519	LHR3331 R	1	Red	Red transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.0	660	550	20	.21	.189	.151	.113
152864	BVU-501RD4	1	Red Super Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	600	660	20	.29	.24	.19	.15
153154	LVG3333 R	1	Green	Water clear (HLMP-8509)	T1 3/4	0.197/5	0.36	0.90	0.10	2.3	500	565	20	*	.081	.065	.049
333551	LVG13233 R	1	Green	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.7	600	565	18	.20	.186	.15	.138
334465	LDBK3331/HO R	1	Blue	Blue transparent	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	900	470	26	1.79	1.46	1.29	1.07
334756	UT5KW3-AA-UAE3-T01	2	White	Water clear	SMD1206	—	0.08	0.14	—	3.2	550	—	120	2.55	2.37	2.15	1.61



## High-Output LEDs

Lower \$\$\$

• Typical DC forward current 20mA

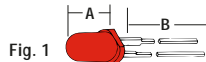


Fig. 1



Fig. 2



Fig. 3

See pages 58-59 for LED  
Mounting Hardware

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
217525	MCDPW-3004C R	1	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	\$2.99	\$2.85	\$2.69	\$2.55
333614	LUY3833H R	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	.31	.261	.239	.215
333606	MV8315-JV R	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2700	595	12	.30	.264	.211	.158
334423	UT9C13-86-UDC2 R	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.23	.21	.173	.12
333518	LUR13233 R	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	.21	.19	.153	.115
333526	LUR3833 R	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	.22	.17	.123	.113
131895	TLSH180P	1	Orange	Water clear	T1 3/4	0.197/5	0.39	0.80	0.10	2.1	10000	623	8	2.49	2.19	1.95	1.79
197683	BVT-5E1QT4ER	1	Orange Red	Water clear	T1 3/4	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.69	.59	.49	.39
334473	LDGL3333/HO R	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	3400	502	22	1.95	1.54	1.20	1.10
183214	MCDPG-503PC1 R	1	Green	Water clear	T1 3/4	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	2.95	2.65	2.39	2.15
183222	MCDL-513SBC4 R	1	Blue	Water clear	T1 3/4	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	3.25	2.95	2.65	2.39
334502	LWK3333 R	1	White	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	1.99	1.82	1.45	1.15
334773	UT18W3-86-UAF1-P22 R	1	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.6	2900	475	25	2.05	1.84	1.66	1.49
183231	BVU-5C14WK4-B	1	White	Water clear	T1 3/4	0.197/5	0.30	1.06	0.08	3.5	3000	—	10	2.05	1.87	1.68	1.51
142894	BVU-5E1WK4-B R	1	White	Water clear	T1 3/4	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	2.89	2.66	2.23	2.11
320531	MCDL-5013UWC R	1	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	1.69	1.31	.96	.87
197641	BVT-529T78E	2	Yellow	Yellow transparent	Oval	0.170"/.220"	0.29	1.04	0.08	2.3	3600	592	70	.76	.68	.61	.54
404582	MCDL-1860UWC-15C R	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	2.25	2.03	1.82	1.35
664341	MCDL-1870UWC-15C R	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	2.75	2.44	2.19	1.62
664405	MCDL-1860UEC-TL R	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	625	75	1.39	1.26	1.13	.85
664413	MCDL-1870UEC-TL R	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	1.39	1.26	1.13	.85
664384	MCDL-1860UYC-TL R	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	590	75	1.39	1.26	1.13	.85
664392	MCDL-1870UYC-TL R	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	590	40	1.39	1.26	1.13	.85
404603	MCDL-1860UGC-TL R	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	2.15	1.94	1.74	1.25
664376	MCDL-1870UGC-TL R	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	7500	525	30	2.15	1.94	1.74	1.25
664368	MCDL-1870UBC-15C R	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	40	2.15	1.94	1.74	1.25
404591	MCDL-1860UBC-15C R	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	2.15	1.94	1.74	1.25

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



Order 24/7 Toll Free 1-800-831-4242

## AVAGO LEDs

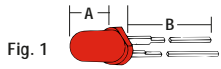


Fig. 1

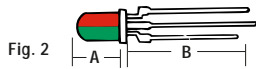


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

Blue Part No. = Limited Quantity Available \* Minimum order 10 pieces

Part No.	Product No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A*	B*						1	10	100
1553871	HLMP-1401-D00A1R	1	Yellow	Yellow diffused	T1	0.119/3	0.19	0.95	0.10	2.0	3.6	583	60	\$.72	\$.415	\$.303
1553820	HLMP-1301-E0002R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	*	.158	.148
1553838	HLMP-1301-E00A1R	1	Hi-eff Red	Red diffused	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	*	.367	.344
1554013	HLMP-1601R	1	Hi-eff Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	5.0	2.1	635	60	.71	.412	.287
1584950	HLMP-NG07R	1	Red	Red tinted	T1	0.119/3	0.23	1.00	0.10	1.9	90.2	635	60	*	.202	.194
1554099	HLMP-1700-B0002R	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	*	.248	.233
1554110	HLMP-1700-B00A2R	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	*	.448	.42
1555665	HLMP-NL06R	1	Amber	Water clear	T1	0.119/3	0.34	1.00	0.10	2.0	96.2	592	60	*	.221	.207
1553926	HLMP-1503-C00A1R	1	Green	Green diffused	T1	0.119/3	0.19	0.95	0.10	2.1	2.6	565	60	*	.441	.413
1553934	HLMP-1503-C00A2R	1	Green	Green diffused	T1	0.119/3	0.19	0.95	0.10	2.1	2.6	565	60	*	.441	.413
1554056	HLMP-1640R	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	5.0	1.6	565	60	.71	.412	.287
1554081	HLMP-1641R	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	12.0	1.6	565	60	.71	.412	.287
1554144	HLMP-1790-A0002R	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.9	2.3	565	50	*	.22	.207
1554603	HLMP-3401-E00B2R	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	5.7	583	60	*	.441	.413
1554611	HLMP-3416R	1	Yellow	Yellow non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	50.0	583	35	*	.166	.116
1554793	HLMP-3862R	1	Yellow	Yellow tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.0	9.2	583	60	.59	.341	.236
1554494	HLMP-3301-D0000R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.1	635	60	*	.194	.154
1554507	HLMP-3301-D0002R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.1	635	60	*	.161	.151
1554523	HLMP-3301-F0002R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	5.4	635	60	*	.172	.161
1554574	HLMP-3351R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.25	1.05	0.10	1.9	5.4	635	50	.59	.307	.236
1554697	HLMP-3600R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	5.0	2.1	635	60	.71	.349	.287
1554777	HLMP-3762R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	8.6	635	60	.59	.341	.236
1584757	HLMP-3301-F0001R	1	Hi-eff Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	5.4	635	60	*	.157	.119
1584773	HLMP-4000\$010R	2	Grn/Hi-eff Red	Diffused, bi-color	T1 3/4	0.197/5	0.36	1.05	0.10	2.2/1.9	4.2/2.1	568/635	65	.71	.63	.544
1554566	HLMP-3316R	1	Red	Red tinted	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	60.0	635	35	*	.166	.115
1554865	HLMP-4700-C00B2R	1	Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.7	2.3	626	50	*	.56	.518
1584888	HLMP-D101-J0002R	1	Red	Red tinted/diffused	T1 3/4	0.197/5	0.34	1.05	0.10	1.8	70.0	645	65	*	.251	.165
1584845	HLMP-C008-U0000R	1	Red	Red clear/non-diffused	T1 3/4	0.197/5	0.36	1.02	0.10	1.9	6000.0	626	8	*	.192	.151
1584765	HLMP-3366R	1	Red	Red tinted/non-diffused	T1 3/4	0.197/5	0.25	1.05	0.10	1.9	13.8	635	45	*	.312	.236
1555403	HLMP-D105R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.8	240.0	637	24	*	.221	.162
1555471	HLMP-EG15-RU000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	1500.0	635	15	.59	.341	.236
1555489	HLMP-EG24-PS000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	880.0	635	23	*	.276	.196
1555500	HLMP-EG30-NR0DDR	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.9	680.0	635	30	.29	.276	.258
1584896	HLMP-ED16-TW000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	2500.0	639	15	.75	.44	.31
1584909	HLMP-ED31-RU000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	1500.0	639	30	.78	.466	.325
1584917	HLMP-EG08-Y2000R	1	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	1.9	9300.0	635	6	.68	.398	.274
1555585	HLMP-EL08-VY000R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.64	1.00	0.10	2.0	4200.0	592	6	.59	.341	.236
1584925	HLMP-EL25-RU000R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.1	1500.0	592	23	.70	.65	.61
1584933	HLMP-EL25-TW000R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	2500.0	592	23	.56	.482	.408
1584941	HLMP-EL30-PR400R	1	Amber	Amber untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	2.0	880.0	592	30	*	.425	.36
1555278	HLMP-C515R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	2.2	170.0	568	20	.59	.341	.236
1555340	HLMP-CM15-S0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	1900.0	524	15	1.04	.83	.62
1555358	HLMP-CM15-W0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	5500.0	524	15	1.34	1.03	.78
1555366	HLMP-CM30-M0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	520.0	524	30	1.04	.83	.62
1555374	HLMP-CM30-S0000R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	1900.0	524	30	1.34	1.03	.78
1554662	HLMP-3519R	1	Green	Green non-diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.7	70.0	565	24	*	.166	.121
1554654	HLMP-3507-D00B2R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.1	4.2	565	60	.90	.518	.379
1554671	HLMP-3554R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.25	1.05	0.10	2.1	6.7	565	50	.59	.341	.236
1554822	HLMP-3962R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	2.1	10.6	565	60	.59	.282	.235
1554881	HLMP-4740-A00B2R	1	Green	Green tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.9	2.3	569	50	*	.56	.518
1555315	HLMP-CB15-P0000R	1	Blue	Blue non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	880.0	470	15	1.04	.83	.62
1555331	HLMP-CB30-M0000R	1	Blue	Blue non-diffused	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	520.0	470	30	1.04	.83	.62
1584853	HLMP-CB11-UVBDDR	1	Blue	Blue untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	3.2	3.2	470	15	1.11	.98	.85
1584861	HLMP-CB15-R0000R	1	Blue	Blue untinted/non-diff.	T1 3/4	0.197/5	0.34	1.20	0.10	3.8	1500.0	472	15	1.01	.83	.62
1584870	HLMP-CW30-SV000R	1	White	Untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	3.6	1900.0	—	30	1.11	.86	.66
1555761	HLMP-S201R	3	Hi-eff Red	Red tinted/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	1.9	3.4	635	110	*	.166	.118
1555788	HLMP-S301R	3	Yellow	Ylw tint/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	2.1	2.2	583	110	*	.166	.13
1555796	HLMP-S501R	3	Green	Grn tint/diffused (rect.)	—	2 x 5mm	0.32	1.00	0.10	2.2	4.2	565	110	*	.166	.13
1553766	HLMP-0301R	3	Red	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	1.9	2.1	635	100	.89	.468	.373
1553774	HLMP-0401R	3	Yellow	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.1	3.6	585	100	.89	.469	.373



## LEDs (Continued)

Lower \$\$\$

For more Avago LEDs  
 visit [www.Jameco.com](http://www.Jameco.com)

# See pg 54 for figures \* Minimum order 10 pieces

Part No.	Product No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter Inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A*	B*						1	10	50
1553782	HLMP-0504	3	Green	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.2	2.6	565	100	\$ .89	\$ .473	\$ .373
1553791	HLMP-0504-B0000	3	Green	Tinted/diffused (rect.)	—	2.5 x 7.6mm	0.32	0.30	0.10	2.2	1.6	565	100	*	.56	.518
1556369	HSMG-C150	4	Green	Green untinted/diffused	SMD0603	3.2 x 1.6mm†	0.03	0.06	0.07	2.2	15.0	570	170	*	.111	.089
1556431	HSMH-C190	4	Red	Red untinted/diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	0.10	1.8	17.0	660	170	*	.145	.094
1557046	HSMH-C190	4	Hi-eff Red	Red untinted/diffused	SMD0603	1.6 x 0.8mm†	0.03	0.06	0.05	2.1	10.0	630	170	.26	.147	.095
1556377	HSMG-C170	4	Green	Green untinted/diffused	SMD0805	3.2 x 1.6mm†	0.05	0.08	0.05	2.2	15.0	570	170	*	.148	.094
1556422	HSMH-C170	4	Red	Red untinted/diffused	SMD0805	2 x 1.25mm†	0.05	0.08	0.06	1.8	17.0	660	170	*	.145	.094
1556385	HSMG-C190	4	Green	Green untinted/diffused	SMD1203	1.6 x 0.8mm†	0.01	0.03	0.06	2.2	15.0	570	170	*	.145	.094
1556414	HSMH-C150	4	Red	Red untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.12	0.10	1.8	17.0	660	170	*	.111	.089
1557020	HSMH-C150	4	Hi-eff Red	Red untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.01	0.10	2.1	10.0	630	170	*	.111	.089
1557071	HSMT-C150	4	Yellow	Yellow untinted/diffused	SMD1206	3.2 x 1.6mm†	0.06	0.01	0.10	2.1	8.0	589	170	*	.111	.089
1556406	HSMG-C660	4	Green	Green untinted/diffused	SMD1208	3 x 2mm†	0.01	0.08	0.11	2.2	9.0	570	155	*	.265	.176
1557054	HSMH-C660	4	Hi-eff Red	Red untinted/non-diffused	SMD1208	3 x 2mm†	0.01	0.08	0.11	1.8	16.0	650	155	*	.265	.176
1556300	HSMF-C155	4	Hi-eff Red/Grn	Diffused, bi-color	SMD1210	3.2 x 2.7mm†	0.11	0.13	0.10	2.1/2.2	10/15	630/570	170	*	.22	.144
1554902	HLMP-6000	5	Red	Red tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	1.6	3.2	655	90	.59	.284	.235
1554945	HLMP-6300	5	Hi-eff Red	Red tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	1.8	10.0	635	90	.50	.241	.196
1554996	HLMP-6400	5	Yellow	Yellow tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.0	9.0	583	90	*	.276	.196
1555041	HLMP-6500	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	7.0	565	90	*	.276	.194
1555059	HLMP-6500-F0010	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	7.0	565	90	.71	.412	.287
1555083	HLMP-6505	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	40.0	565	28	*	.276	.196
1555104	HLMP-6505-L0021	5	Green	Green tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.1	40.0	565	28	*	.233	.203
1555219	HLMP-7000	5	Hi-eff Red	Red tint/diffused	0.07mm	Dome sub	0.12	0.46	Axial	1.8	1.0	635	90	.59	.341	.236
1555817	HLMT-PH00-P0011	6	Orange	Orange untinted/non-diffused	0.07mm	FT sub	0.10	0.46	Axial	1.9	120.0	621	125	.81	.485	.344
1584781	HLMP-6720	5	Yellow	Yellow diffused	0.07mm	Dome sub	0.12	0.46	Axial	2.0	2.0	583	90	.66	.57	.479
1584790	HLMP-6820	5	Green	Green diffused	0.07mm	Dome sub	0.12	0.46	0.06	2.1	1.6	565	90	.88	.51	.37
1584802	HLMP-7019	5	Yellow	Yellow tint/diffused	0.07mm	Dome sub	0.12	0.46	0.06	2.0	0.6	583	90	.59	.341	.235
1555711	HLMP-P505-G0011	6	Green	Green untinted/non-diffused	0.07mm	FT sub	0.10	0.46	0.06	2.1	1.6	565	125	*	.243	.219
1584968	HLMP-Q106-R0011	5	Red	Untinted/non-diffused	0.07mm	Dome sub	0.46	0.12	0.06	1.9	400.0	654	15	.56	.482	.408
1584976	HLMP-Q156-H0021	5	Red	Untinted/non-diffused	0.07mm	Dome sub	0.46	0.12	0.06	1.6	7.0	654	15	.56	.482	.408
1585055	HSMH-A100-Q00J1	7	Red	Water clear SMT	PLCC-2	—	0.11	0.13	0.06	1.9	100.0	635	120	*	.12	.089
1585101	HSMC-A100-R00J1	7	Red	Water clear SMT	PLCC-2	—	0.11	0.13	0.06	1.9	140.0	635	120	*	.142	.12
1556211	HSMC-A100-Q00J1	7	Red	Water clear SMT	PLCC-2	—	0.11	0.13	—	1.9	100.0	635	120	*	.142	.132
1556342	HSMG-A100-J02J1	7	Yellow	Water clear SMT	PLCC-2	—	0.10	0.46	—	2.2	18.0	565	120	*	.105	.099

† SMT ‡ SMT, right angle # See pg 54 for figures



## LEDs

NEW

# See pg 54 for figures \* Minimum order 10 pieces

Part No.	Product No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter Inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing		
							A*	B*						1	10	100
1621917	LG-T670-K1L2-1-2	7	Green	Water clear SMT	PLCC-2	—	0.12	0.12	—	2.0	18	570	120	*	\$ .148	\$ .139

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

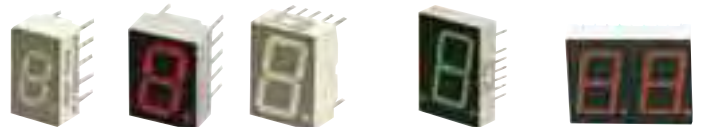


## 7-Segment LED Displays

Lower \$\$\$

The general advantages of LED displays compared to incandescent types include:

- Lower power consumption
- Longer lifetime (average of more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations



Single Digit RHDP

Single Digit RHDP/LHDP

2-Digit RHDP

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
										1	10	100
1551605	HDSP-7403	0.30	Yellow	CC	10	2.2 @ 20	0.48 @ 5	583	RHDP	\$2.95	\$2.58	\$2.46
1551710	HDSP-A101	0.30	Red	CA	10	1.8 @ 20	0.6 @ 1	645	RHDP	3.09	2.62	2.28
1551728	HDSP-A103	0.30	Red	CC	10	1.8 @ 20	0.6 @ 1	645	RHDP	3.09	2.59	2.28
1584394	HDSP-A113	0.30	Red	CC	10	2.0 @ 20	0.60 @ 1	600	RHDP	2.89	2.36	2.22
1548019	5082-7610	0.30	Hi-eff. Red	CA	11	2.1 @ 5	0.8 @ 5	645	LHDP	2.89	2.39	2.11
1551613	HDSP-7501	0.30	Hi-eff. Red	CA	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.59	2.16	1.90
1551621	HDSP-7501-CD000	0.30	Hi-eff. Red	CA	10	2.0 @ 20	0.98 @ 5	635	RHDP	3.05	2.82	2.65
1551664	HDSP-7511	0.30	Hi-eff. Red	CA	10	2.1 @ 20	0.27 @ 2	635	RHDP	3.15	2.89	2.71
1548043	5082-7613	0.30	Hi-eff. Red	CC	10	2.1 @ 5	0.8 @ 5	645	RHDP	3.05	2.80	2.63
1551648	HDSP-7503	0.30	Hi-eff. Red	CC	10	2.0 @ 20	0.98 @ 5	635	RHDP	2.75	2.53	2.37
1584360	HDSP-7504	0.30	Hi-eff. Red	CC	10	2.0 @ 20	0.98 @ 5	635	RHDP	3.05	2.24	2.05
1584378	HDSP-7513	0.30	Hi-eff. Red	CC	10	2.1 @ 20	0.27 @ 2	635	RHDP	3.59	2.50	2.12

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## 7-Segment LED Displays (Continued)

Lower\$\$\$

For more Avago LEDs  
visit [www.Jameco.com](http://www.Jameco.com)

See pg 55 for photos

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity *	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
										1	10	100
1551699	HDSP-7803R	0.30	Green	CC	10	2.1 @ 10	3 @ 10	566	RHDP	\$2.75	\$2.53	\$2.37
1584407	HDSP-A903R	0.30	Green	CC	10	2.1 @ 20	0.47 @ 4	566	RHDP	3.09	2.77	2.12
1551824	HDSP-F151R	0.40	Red	CA	10	1.8 @ 20	15 @ 20	645	RHDP	3.29	3.03	2.84
1551816	HDSP-F113R	0.40	Red	CC	10	1.8 @ 20	0.65 @ 1	645	RHDP	3.29	3.03	2.84
1584415	HDSP-F201-DE000R	0.40	Hi-eff. Red	CA	10	2.0 @ 20	1.2 @ 5	635	RHDP	3.05	2.70	2.08
1551859	HDSP-F203R	0.40	Hi-eff. Red	CC	10	2.0 @ 20	1.2 @ 5	635	RHDP	2.75	2.53	2.37
1584423	HDSP-F401R	0.40	Orange	CA	10	2.0 @ 20	1.2 @ 5	600	RHDP	2.69	1.99	1.82
1551883	HDSP-F501R	0.40	Green	CA	10	2.1 @ 10	3.5 @ 10	566	RHDP	2.75	2.53	2.37
1584431	HDSP-F501-JK000R	0.40	Green	CA	10	2.1 @ 10	3.5 @ 10	566	RHDP	3.05	2.75	2.46
1584440	HDSP-F503-JK000R	0.40	Green	CC	10	2.1 @ 10	3.5 @ 10	566	RHDP	3.05	2.22	2.07
1548060	5082-7650R	0.43	Hi-eff. Red	CA	10	2.1 @ 20	1.1 @ 5	635	LHDP	3.05	2.80	2.63
1548078	5082-7651R	0.43	Hi-eff. Red	CA	11	2.1 @ 20	1.1 @ 5	635	RHDP	3.05	2.80	2.63
1551331	HDSP-4601R	0.43	Green	CA	11	2.1 @ 10	4 @ 10	566	RHDP	3.05	2.80	2.63
1551349	HDSP-4603R	0.43	Green	CC	11	2.1 @ 10	4 @ 10	566	RHDP	3.05	2.80	2.63
1551939	HDSP-H101R	0.56	Red	CA	10	1.8 @ 20	0.70 @ 1	645	RHDP	2.99	2.76	2.58
1551963	HDSP-H151R	0.56	Red	CA	10	1.8 @ 20	16 @ 20	645	RHDP	3.09	2.87	2.69
1551971	HDSP-H153R	0.56	Red	CC	10	1.8 @ 20	16 @ 20	645	RHDP	3.09	2.87	2.69
1584458	HDSP-H103-DE000R	0.56	Red	CC	10	1.8 @ 20	0.70 @ 1	645	RHDP	2.89	2.39	2.22
1551445	HDSP-5501R	0.56	Hi-eff. Red	CA	10	2.1 @ 10	2.8 @ 10	635	RHDP	2.49	2.30	2.15
1584335	HDSP-5501-GH000R	0.56	Hi-eff. Red	CA	10	2.1 @ 20	2.8 @ 10	635	RHDP	3.39	2.28	1.86
1551488	HDSP-5221R	0.56	Hi-eff. Red	2-digit CA	18	2.1 @ 20	2.8 @ 10	635	RHDP	3.69	3.44	3.23
1551509	HDSP-5523R	0.56	Hi-eff. Red	2-digit CC	18	2.1 @ 20	2.8 @ 20	635	RHDP	3.69	3.44	3.23
1551525	HDSP-5601R	0.56	Green	CA	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.49	2.30	2.15
1584343	HDSP-5601-GH000R	0.56	Green	CA	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.79	2.04	1.90
1551568	HDSP-5621R	0.56	Green	2-digit CA	18	2.1 @ 10	2.5 @ 10	566	RHDP	3.69	3.44	3.23
1551533	HDSP-5603R	0.56	Green	CC	10	2.1 @ 10	2.5 @ 10	566	RHDP	2.49	2.30	2.15
1584351	HDSP-5623R	0.56	Green	2-digit CC	18	2.1 @ 10	2.5 @ 10	566	RHDP	4.15	2.90	2.53
1551322	HDSP-3903R	0.80	Hi-eff. Red	CC	13	2.6 @ 100	4.8 @ 20	635	RHDP	4.29	3.99	3.75
1584386	HDSP-8603R	0.80	Green	CC	13	2.1 @ 10	1.5 @ 10	566	RHDP/LHDP	4.79	3.36	2.93

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point



## 7-Segment LED Displays

The general advantages of LED displays compared to incandescent types include:

- Lower power consumption
- Longer lifetime (average of more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

Single Digit RHDP

Single Digit RHDP/LHDP

2-Digit RHDP



3-Digit RHDP



4-Digit RHDP



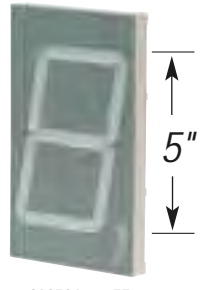
4x7 Hex Character



Dot Matrix



10-Bargraph



202526, pg 57

For more LiteOn LED Displays  
visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity *	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
789970	LTC-2621GR	0.28"	Green	3-digit CA	13	2.1 @ 20	2 @ 10	569	RHDP	\$1.85	\$1.78	\$1.73	\$1.65
878201	LTS-312AHR	0.30"	Hi-eff Red	CA	11	2.1 @ 20	2.0 @ 10	623	RHDP/LHDP	.86	.78	.71	.65
790532	LTS-313AHR	0.30"	Hi-eff Red	CC	10	2.0 @ 20	2.0 @ 10	623	RHDP	1.28	1.06	.96	.63
790516	LTS-312AGR	0.30"	Green	CA	11	2.1 @ 20	2.0 @ 10	569	RHDP/LHDP	.76	.75	.72	.68
790559	LTS-360HR	0.36"	Hi-eff Red	CA	10	2.0 @ 20	2.0 @ 10	623	RHDP	1.28	1.06	.96	.63
790575	LTS-4940AHR	0.40"	Hi-eff Red	CC	11	2.0 @ 20	2.2 @ 10	623	RHDP	1.10	.92	.83	.547
789996	LTC-4627JR	0.40"	Super Red	4-digit CA	14	2.0 @ 20	0.65 @ 1	631	RHDP	2.35	2.21	2.14	2.07
790591	LTS-546AHR	0.52"	Hi-eff Red	CA	10	2.0 @ 20	2.2 @ 10	623	RHDP	1.53	1.28	1.15	.75
790612	LTS-5703AY	0.56"	Yellow	CC	10	2.1 @ 20	2.4 @ 10	588	RHDP	1.49	1.24	1.12	.73
697485	LTD-6910HR	0.56"	Red	2-digit CA	18	2.0 @ 150	3.9 @ 10	635	RHDP	.99	.91	.81	.78
790031	LTD-6940HR	0.56"	Hi-eff Red	2-digit CC	18	2.0 @ 20	2.4 @ 10	623	RHDP	1.07	1.05	1.01	.98
790006	LTC-5723HR	0.56"	Hi-eff Red	4-digit CC	12	2.0 @ 20	2.4 @ 10	623	RHDP	1.99	1.93	1.87	1.81
790639	LTS-6460GR	0.56"	Green	CA	10	2.1 @ 20	2.4 @ 10	569	RHDP	1.49	1.24	1.12	.73
790014	LTD-5621AGR	0.56"	Green	2-digit CA	18	2.1 @ 20	2.4 @ 10	569	RHDP	1.19	1.16	1.13	1.10
790022	LTD-6410GR	0.56"	Green	2-digit CA	18	2.1 @ 20	2.4 @ 10	569	RHDP	.89	.89	.81	.81

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

# 7-Segment, Bargraph & Alphanumeric LED Displays

JAMECO ValuePro

## 7-Segment LED Displays



Lower \$\$\$

Soldering: • Soldering bath: not more than 5 seconds @ 260°C • Soldering iron: not more than 3 seconds @ 300°C under 30W

See pg 56 for photos

Part No.	Product No.	Character Height	Illuminated Color	Bus Polarity *	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
334984	UA3051-12	0.30"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	\$ .78	\$ .69	\$ .61	\$ .478
334800	UC3051-11	0.30"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.82	.80	.64	.50
335054	UN4043-13 EWRS	0.40"	Orange	3-digit CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.25	1.96	1.88	1.37
334933	UC5652-11	0.56"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.19	1.14	.87	.83
334960	UA5652-11	0.56"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.45	1.39	1.03	.99
335090	UA5651-11	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	1.04	.92	.74
334896	UC5641R-11	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.95	.94	.65	.506
334942	UC5642R-11	0.56"	Hi-eff Red	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.50	1.20	1.02	.82
334976	UA5642R-11	0.56"	Hi-eff Red	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.07	1.06	.80	.76
335101	UA5641R-11	0.56"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.90	.82	.61	.476
334880	UC5641-11	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.83	.76	.525	.506
335177	UA5624-11 EWRS	0.56"	Green	4-digit CA	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.75	2.47	2.25	1.69
335194	UM5624-11 EWRS	0.56"	Green	4-digit CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	3.35	2.96	2.84	2.08

LEDTECH



Other Manufacturers — Great Deals



24731	LSD3021-11	0.30"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	\$ .87	\$ .70	\$ .50	\$ .47
24740	LSD3221-11	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.95	.87	.77	.70
24782	LSD3211-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	1.07	.90	.78	.59
17187	LSD5051-11	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.64	.481
17208	LSD5061-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.45	1.23	1.11	.85
104213	LSD5124-10	0.56"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.48	.43	.387	.348
24715	LDD5121-20	0.56"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.50	1.26	1.07	.90
24723	LDD5111-11	0.56"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24707	LDD5114-20	0.56"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.43	.98	.69
18737	LSD816-11	0.80"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.18	1.15	1.10	.99
308259	LA8071-11-MIEWRW	0.80"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP	1.75	1.60	1.38	1.06
18753	LSD8151-10	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.10	.94	.80	.68
97172	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.25	1.12	.99
97199	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	6.95	6.23	5.63	5.03
97201	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	3.35	3.00	2.85	2.70
202518	LSD30165-20	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP	8.87	7.98	7.18	6.47
202542	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	6.05	5.45	4.90	4.46
105591	LSD40054-20	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	7.79
202526	LSD50065-20	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP	32.51	28.43	23.42	17.56
202534	LSD50055-20	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP	24.95	19.94	17.99	13.49

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment

JAMECO ValuePro

## Bargraph & Dot Matrix LED Displays

See pg 56 for photos

Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity *	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
									1	10	100	1000
334511	UL10000-E-EWAK	—	Green	Bargraph	4	2.1 @ 20	1.4 @ 10	567	\$1.28	\$1.04	\$ .85	\$ .68
334529	UL10000-HR-RRAK	—	Red	Bargraph	4	2.1 @ 20	1.6 @ 10	635	1.31	1.05	.86	.69
334537	UL10000-Y-EWAK	—	Yellow	Bargraph	4	2.1 @ 20	1.1 @ 10	585	1.22	.97	.76	.73

Other Manufacturers — Great Deals

32951	TIL311	0.300"	Red	4 x 7 Hex char	11	5.0 @ 5	0.1 @ 5	660	\$20.35	\$17.22	\$14.64	\$13.74
218843	CSM57041T-11	0.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	1.95	1.76	1.40	1.05
206560	LTP2157AG	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	1.85	1.65	1.49	1.34
183265	LMD5821ASR-20	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	4.95	4.49	3.95	2.96

\* CC-Common Cathode/CR-Cathode Row/AR-Anode Row † Compatible Jameco socket: P/N 37162, pg 135



NEW

## Alphanumeric LED Displays

Lower \$\$\$

For more Avago & OSRAM LED Displays visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Character Height	Color Display	Bus Polarity	Pins/ Leads	Typical mcd @ mA	Wavelength nm	Pricing		
								1	10	100
1548844	HCMS-2903	0.15	Green	5 x 7 alphanumeric	12	114	568	\$25.59	\$23.88	\$22.38
1551120	HDLG-2416	0.20	Green	Alphanumeric	18	5.6	568	21.35	19.91	18.67
1551189	HDSP-0762	0.29	Hi-eff. Red	Hex and numeric	8	0.14	635	45.85	42.75	40.08
1555876	HPDL-1414	0.11	Red	4-char. alphanumeric	12	1	655	23.19	21.63	20.28
1584301	HDSP-2111	0.20	Yellow	8-char. alphanumeric	28	7.5	583	34.05	31.85	29.64
1551251	HDSP-2531	0.20	Yellow	8-char. alphanumeric	30	7.5	583	40.09	37.41	35.07
1551269	HDSP-2532	0.20	Hi-eff. Red	8-char. alphanumeric	30	7.5	635	40.09	37.41	35.07
1584327	HDSP-2503	0.27	Green	8-char. alphanumeric	28	7.5	568	41.95	34.54	32.06
1623488	SLG2016	0.18	Green	5 x 7 alphanumeric	14	0.075	565	22.15	20.66	19.37
1623496	SLR2016	0.18	Red	5 x 7 alphanumeric	14	0.050	660	16.39	15.94	15.50

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product Ⓢ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend

New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

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LITEON

## Bargraph & Lightbar LED Displays

Part No.	Product No.	Illuminated Color	Bus Polarity	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
								1	10	100	1000
697469	LTA-1000G	Green	Bargraph	20	2.1 @ 20	2.0 @ 10	565	\$1.23	\$1.04	\$.83	\$.61
697477	LTA-1000HR	Hi-eff red	Bargraph	20	2.0 @ 20	2.0 @ 10	635	1.02	.86	.69	.56
697493	LTL-2685HR	Red	Lightbar	16	2.0 @ 20	8.0 @ 10	—	1.59	1.35	1.22	.80
697506	LTL-2885G	Green	Lightbar	16	2.1 @ 20	16.0 @ 10	—	1.59	1.35	1.21	.95

AVAGO

## Bargraph & Lightbar LED Displays

Part No.	Product No.	Illuminated Color	Bus Polarity	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
								1	10	100	1000
1551373	HDSP-4830	Hi-eff. Red	Bargraph	20	1.6 @ 20	1.25 @ 20	655	\$4.95	\$4.59	\$4.30	
1551402	HDSP-4832	Hi-eff. Red, Yellow, Green	Bargraph	20	2.1 @ 20, 2.2 @ 20, 2.1 @ 10	3.5 @ 10, 1.9 @ 10, 1.9 @ 10	635, 583, 566	6.45	5.99		5.62
1551429	HDSP-4850	Green	Bargraph	20	2.1 @ 10	1.9 @ 10	566	5.89	5.46		5.12
1553686	HLCP-J100	Red	Bargraph	20	1.8 @ 20	1.0 @ 1	645	5.89	5.46		5.12
1554179	HLMP-2300	Hi-eff. Red	Lightbar	4	2.0 @ 20	23 @ 20	635	1.23	1.15		1.08
1554195	HLMP-2350	Hi-eff. Red	Lightbar	8	2.0 @ 20	45 @ 20	635	2.09	1.95		1.83
1554208	HLMP-2350-EF000	Lightbar	Lightbar	8	2.0 @ 20	45 @ 20	635	2.29	2.14		2.00
1554216	HLMP-2400	Yellow	Lightbar	4	2.1 @ 20	20 @ 200	583	1.23	1.15		1.08
1554232	HLMP-2450	Yellow	Lightbar	8	2.1 @ 20	38 @ 20	583	2.09	1.95		1.83
1554267	HLMP-2500-FG000	Green	Lightbar	4	2.2 @ 20	25 @ 20	565	1.35	1.26		1.18
1554275	HLMP-2550	Green	Lightbar	8	2.2 @ 20	50 @ 20	565	2.09	1.95		1.83
1554291	HLMP-2620	Hi-eff. Red	Lightbar	16	2.0 @ 20	23 @ 20	635	3.09	2.87		2.69
1554312	HLMP-2635	Hi-eff. Red	Lightbar	8	2.0 @ 20	45 @ 20	635	3.09	2.87		2.69
1554321	HLMP-2655	Hi-eff. Red	Lightbar	16	2.0 @ 20	45 @ 20	635	1.85	1.72		1.61
1554347	HLMP-2685	Hi-eff. Red	Lightbar	16	2.0 @ 20	80 @ 20	635	3.09	2.87		2.69
1554398	HLMP-2785	Yellow	Lightbar	16	2.1 @ 20	70 @ 20	583	3.09	2.87		2.69
1554419	HLMP-2800	Green	Lightbar	8	2.2 @ 20	25 @ 20	565	1.85	1.72		1.61
1554427	HLMP-2820	Green	Lightbar	16	2.2 @ 20	25 @ 20	565	3.09	2.87		2.69
1554443	HLMP-2855-FG000	Green	Lightbar	8	2.2 @ 20	50 @ 20	565	2.05	1.91		1.79
1584749	HLMP-2685-EF000	Hi-eff. Red	Lightbar	16	2.0 @ 20	80 @ 20	635	3.79	2.48		2.31

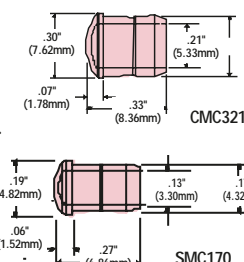
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## T1 & T1<sup>3/4</sup> Ciplite® Panel Lens for PCB Mounted LEDs

T1 and T1-3/4 size low-profile panel lenses provide 180° viewing angle. Type SMC170 for T1 LEDs. Hole size: 0.171" on 0.250" centers. CMC321 for T1-3/4 LEDs. Hole size: 0.283" on 0.375" centers. Use retaining ring RNG165 for SMC170 and RNG268 for CMC321/CMS 322. RNG268: 0.36" Dia., 0.08" L.

- RNG165: 0.24" Dia., 0.50" L
- RNG132: 0.24" Dia., 0.08" L
- CMC285: 0.21" Dia., 0.285" L
- SMC130: 0.14" Dia., 0.24" L

Quantity SAVE

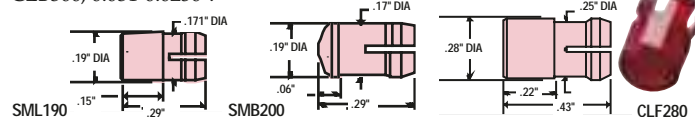


Part No.	Type	Size	Color	1	10	100	1000
143183	SMC170CTP	T1	Clear	\$.26	\$.226	\$.20	\$.14
143132	CMC321CTP	T1 3/4	Clear	.29	.261	.209	.157

777

## T1 & T1<sup>3/4</sup> Ciplite® LED Lens Mounts

Standard and low profile, provide 180° viewing angle. Colors: red, green, amber, yellow and clear. Hole size for T1, 0.171" on 0.250" centers. Panel thickness T1: SML190, 0.031-0.062"; SMB200, 0.062-0.125". Hole size for T1 & T1-3/4, 0.250" on 0.375" centers. Panel thickness, CLF280, 0.062-0.125". CLB300, 0.031-0.0250".



Part No.	Type	Size	Color	1	10	100	1000
417818	SML190RTP	T1	Red	\$.26	\$.226	\$.166	\$.14
417906	SMB200CTP	T1	Clear	.26	.226	.167	.14
29612	CLF280RTP	T1 3/4	Red	.28	.252	.202	.152
14277	CLF280CTP	T1 3/4	Clear	.28	.257	.216	.157
124927	CLB300CTP	T1 3/4	Clear	.29	.257	.228	.175

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## Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB. 3mm type CNXBE and CNXBX connector assemblies use SMC170 lens or SMC130 mount; 5mm type CNXCE and CNXCX assemblies use a CMC321 lens or CMC285 mount. Thin panels (0.032") use ring spacer type SPC040 for 3mm and type SPC060 for 5mm assemblies. CNXBE, CNXCE and CNXDF cables are supplied with panel and header connector. The BX, CX and DX cables are supplied with panel connector and bare wire leads. CNXV and H series locking headers provide positive locking between PCB and cable assembly.

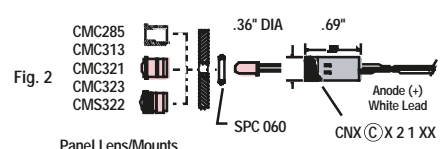
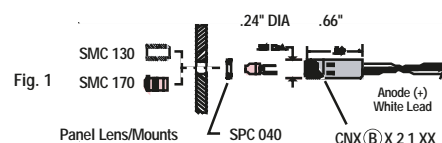
Part No.	Type	Fig.	LED Type	Termination	Length	1	10	100	1000
417375	CNXBE2104	1	T1 (3mm) Bi-lead	2 position connector	4"	\$1.99	\$1.69	\$1.11	\$1.00
143088	CNXBE2108	1	T1 (3mm) Bi-lead	2 position connector	8"	1.50	1.36	1.26	1.19
417439	CNXBX2118	1	T1 (3mm) Bi-lead	Stripped leads	18"	1.69	1.43	1.14	.84
143037	CNXCE2108	2	T1 3/4 (5mm) Bi-lead	2 position connector	8"	1.29	1.25	1.19	1.15
417501	CNXCX2112	2	T1 3/4 (5mm) Bi-lead	Stripped leads	12"	1.55	1.30	1.03	.77

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

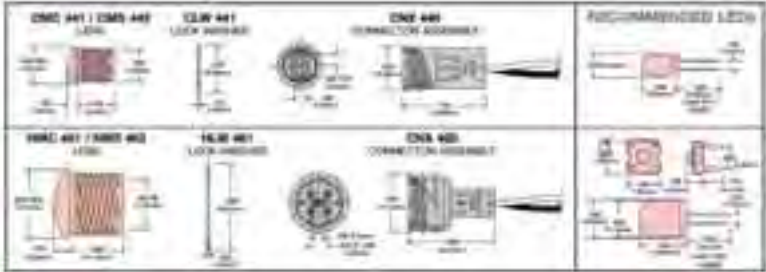




Cable Assemblies for 5mm and 10mm LED Lights

Features:

- Enhances LED apparent brightness as well as the viewing angle to 180°
  - Sealed version exceeds NEMA 4 for dust, water and ice
  - Tested for temperature cycling, UV, solar shock and vibration
  - Plug and play approach simplifies cable installation



Pre-Wired Solderless LED holders – Twist Fit

5mm Bi-Lead LED 24 AWG 2-Wire/Stripped End

Part No.	Product No.	Length (in.)	1	10	100	500
673811	CNX440-X02-4-1-04	4	\$2.25	\$2.11	\$2.00	\$1.90
673820	CNX440-X02-4-1-08	8	1.85	1.81	1.78	1.73
673838	CNX440-X02-4-1-12	12	1.95	1.91	1.88	1.83

10mm Bi-Lead LED 24 AWG 2-wire/0.025" Header Post

673862	CNX460-E02-4-1-04	4	\$4.15	\$2.65	\$2.57	\$2.25
673897	CNX460-E02-4-1-12	12	4.25	2.80	2.72	2.33
673951	CNX460-E02-4-1-24	24	4.39	2.98	2.89	2.49

Blue Part No. = Limited Quantity Available



CLIPLITE® Moisture Sealed Litepipe Assemblies

Designed to transmit light from PCB mounted LED (3mm and 5mm) and surface mount LEDs to the front panel display. These litepipes increase the apparent brightness of an LED and disperse the viewing angle of up to 180°. The litepipe assembly meets NEMA-3 for moisture and dust. Because there is no direct connection between the litepipe and LED, the circuit board can be installed or removed without disturbing the panel.



- Mounts in 0.281" holes with 3/8" centers on 1/32" to 1/8" panel thickness

Part No.	Product No.	Length (in.)	Color	1	10	100	500
675761	LMS033CTP	0.33	Clear	\$1.21	\$1.07	\$ .99	\$ .94
675825	LMS133CTP	1.33	Clear	1.21	1.07	.99	.94
675833	LMS133RTP	1.33	Red	1.21	1.07	.99	.94
675841	LMS133GTP	1.33	Green	1.21	1.07	.99	.94

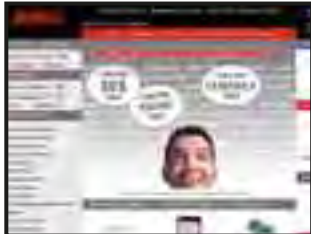


Design Engineer's 39 Piece LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping. 139 piece hardware kit for T1 and T1 3/4 LEDs clear plastic case with dividers.



Part No.	Description	Price
418731	Engineer's hardware kit	\$25.09



www.Jameco.com

For more LEDs, LED Cable Assemblies, Litepipe Assemblies, and LED Mounting Hardware, visit our website today!

Lens for Twist Style LED Holders

Includes: Lockwasher and retaining ring

5mm (T1 3/4) Standard Lens

Part No.	Product No.	Color	1	10	100	500
674072	CMC441ATP	Amber	\$ .75	\$ .54	\$ .52	\$ .384

5mm (T1 3/4) Water Tight Lens

674110	CMS442YTP	Yellow	\$1.47	\$ .97	\$ .94	\$ .74
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10mm Standard Lens

674179	HMC461GTP	Green	\$1.00	\$ .86	\$ .71	\$ .58
674187	HMC461ATP	Amber	1.00	.86	.71	.58
674195	HMC461YTP	Yellow	1.00	.86	.71	.58
674208	HMC461BTP	Blue	1.00	.86	.71	.58

10mm Water Tight Lens

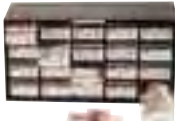
674216	HMS462CTP	Clear	\$1.85	\$1.22	\$1.19	\$ .93
674224	HMS462RTP	Red	1.85	1.22	1.19	.93
674241	HMS462ATP	Amber	1.85	1.22	1.19	.93
674259	HMS462YTP	Yellow	1.85	1.22	1.19	.93
674267	HMS462BTP	Blue	1.89	1.22	1.19	.93

Blue Part No. = Limited Quantity Available

LEDs & LED Mounting Hardware Kit

Includes:

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 237 and labels
  - 10 ea. standard-output LEDs (34657, 114673, 114681, 34606, 34825, 34711, 104248, 34690, 11359, 34761, 104256, 34673), pg 52
  - 10 ea. LED lens mount (14277), pg 58
  - 100 ea. LEDs (94529, 135597), pg 52
  - 100 ea. LED mounting hardware (95513, 23077), below



Part No.	Description	Wt. (lbs.)	1	10
84996	560 piece kit	5.0	\$69.95	\$63.25

LED Mounting Hardware



- Color: black
  - Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Description	Mounting Hole Dia.	Panel Thickness	Pricing		
					10	100	1000
95513	LMH100	T1 snap-in	.185"	Up to .070"	\$ .08	\$ .07	\$ .04
23077	LMH200	T1 1/4 ring & clip	.257"	Up to .125"	.15	.14	.12

JAMECO BenchPro

2-150mA LED Tester

Pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of the 13 positions on the tester at current ratings ranging from 2-30mA. Another 13 positions strip ranging from 20mA to 150mA to test other types of LEDs.



Part No.	Description	Size (L x W x H)	Price
355805	LED tester	3.1" x 2.2" x 0.9"	\$8.79

# Infrared LEDs, Lamps & Panel Mount Indicators

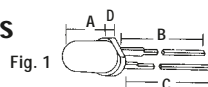
Color Code Legend  
New Sale Lower\$ QtySave



## Infrared Light Emitters & Reflective Sensors

For more LiteOn & Fairchild Infrared LEDs visit [www.Jameco.com](http://www.Jameco.com)

NEW



\* Minimum order 10 pieces

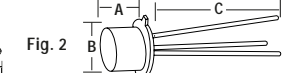
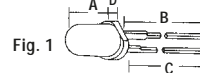
Part No.	Product No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
790049	LTE-2871	1	Infrared emitter diode	T1 3/4	0.197/5	0.3	0.96	1.00	0.04	1.2V @ 20mA	940	90	★	Call	Call	Call
790057	LTE-302	2	Infrared emitter diode, side look	4.4mm x 5.7mm	—	—	—	—	—	1.2V @ 20mA	940	75	.23	.194	.157	.123
787675	QEE113	2	Infrared emitter diode, side look	4.4mm x 5.1mm	0.651/1.7	—	—	—	—	1.5V @ 50mA	940	100	*	.176	.16	.153
787712	QSE113	2	Infrared phototransistor	4.4mm x 5.7mm	0.651/1.7	—	—	—	—	—	880	100	*	.338	.304	.274
874939	QRD114	2	Reflective object sensor	6.1mm x 4.7mm	—	—	—	—	—	1.7V @ 50mA	940	100	.93	.73	.62	.59
1623349	SFH484-2	1	Infrared emitter diode	T1 3/4	0.197/5	0.3	0.5	1.14	1.07	1.5V @ 100mA	880	25	*	.43	.42	.378

★ Please call or visit our website for minimum order quantity and pricing.

JAMECO ValuePro

## Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- P/N 133947: Can be used with infrared lighted cameras, see [www.Jameco.com](http://www.Jameco.com) (peak emission wavelength: 940nm @ 20mA)



Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
372737	UT1883-81-880	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	\$ .32	\$ .22	\$ .176	\$ .158

### Other Manufacturers — Great Deals

Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	A	B	C	D	Vf @ If	nm	mWatts	1	10	100	1000
112150	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	\$ .22	\$ .18	\$ .14	\$ .12
133947	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526	LVIR3333	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112169	LT1893-82-0125	1	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221	BPW77NA	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.99	1.89	1.55	1.21

† Lens color = water clear

JAMECO ValuePro

## LED Replacement Lamps

- Low current draw — 90% less energy than incandescent
- No heat generated
- Long life — up to 100k hours
- Mounts directly into industry standard socket

### Cluster-Based LED T3 - Miniature Bayonet (BA9s) - Non-Polarized

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392585	585-5523	Yellow	14	20	7000	588	\$11.15	\$9.94	\$9.44
392593	585-5225	Red	28	15	6500	630	9.45	8.03	6.02
392622	585-5525	Yellow	28	15	6000	588	12.95	11.24	9.52
392632	585-5256	Red	120VAC	5.5	6500	625	9.89	9.64	8.31
392649	585-5356	Green	120VAC	5.5	7000	525	6.25	5.60	5.45



## LED Panel-Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

141111/141129/141137: Chrome housing

Part No.	Cross Ref. No.	LED Size	Color	Dimensions (in.)			Mounting Hole	Vf @ If	Pricing			
				L	A	B			1	10	100	1000
141111	L922SRD	T1	Red	.56	.34	.25	.23"	2V @ 20mA	\$ .76	\$ .68	\$ .58	\$ .434
141129	L913RD	T1	Red	.56	.39	.32	.24"	2V @ 20mA	1.19	.85	.75	.65
141137	L917RD	T1 3/4	Red	.70	.55	.47	.31"	2V @ 20mA	.99	.89	.79	.65
637183	UT2U1G-H113-R801-W05	T1 3/4	Green	.55	5.5	5.5	.24"	12V @ 30mA	1.29	1.05	.87	.76

## CML LED Panel-Mount Indicators

Part No.	Product No.	Color	Dimensions (in.)			Mounting Hole	Vf @ If	Pricing			
			L	A	B			1	10	100	1000
1766796	5100H1	Red	.53	6.0	6.0	.25	2V @ 35mA	\$ .99	\$ .80	\$ .74	.70
1766809	5100H1/5	Red/green	.77	6.0	6.0	.25	2.2V @ 10mA	1.59	1.30	1.21	1.19
1766850	5102H5-5V	Green	.53	6.0	6.0	.25	5V @ 12mA	1.35	1.17	1.11	1.09
1766876	5110F5	Green	.41	6.0	6.0	.158	2.2V @ 20mA	1.19	1.01	.95	.93
1767561	5400A5	Green	.68	4.4	4.8	.317	2V @ 35mA	1.65	1.42	1.34	1.31
1767908	6039-004-304R	Red	.55	6.0	6.0	.193	1.6V @ 35mA	5.25	4.53	4.35	4.29
1767895	6039-004-304G	Green	.55	6.0	6.0	.193	2.2V @ 35mA	5.09	4.38	4.15	4.11
1767916	6091M5-12V	Green	1.6	4.4	4.8	.380	12V	5.49	4.80	4.56	4.49

\* With built-in resistor

## LED Panel-Mount Indicators

Part No.	Product No.	LED Size	Color	Dimensions (in.)			Mounting Hole	Vf @ If	Pricing		
				L	A	B			1	10	100
1716810	558-0501-007F	T1 3/4	Green	.47	.275	.27	.158"	2.1V @ 10mA	\$2.79	\$2.18	\$1.82

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## CML Neon Panel Mount Lamp

- 4.4"/4.8" wire leads
- Color: Red
- 150VAC - 125VAC
- .310" Dia. mounting hole

Part No.	Product No.	1	10	100
1765849	2150A1	\$2.05	\$1.74	\$1.56

### Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

Part No.	Cross Ref. No.	1	10	100
215803	R9-71N-05-120V-R	\$2.09	\$1.86	\$1.58
215811	R9-71N-05-120V-Y	1.79	1.59	1.35
215830	R9-71N-05-120V-G	1.79	1.59	1.35
1585485	32501001714	1.95	1.75	1.49

For more LED Lamps, visit our website  
[www.Jameco.com](http://www.Jameco.com)

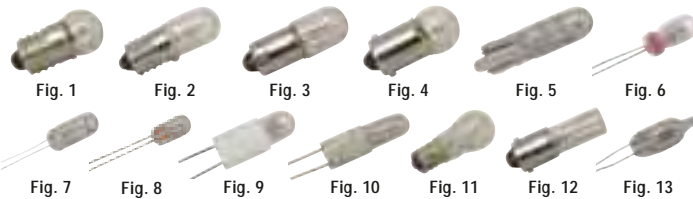
## 12V Incandescent Panel Mount Lamps

- 215782/215791/215774: wire length - 3.9" (100mm)
- 215749/215758/215766: wire length - 4.9" (125mm)
- 215715/215723/215732: solder terminals - 0.196" (5mm)

Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	1	10	100
215774	R9-46B-W100-12V-R	1	Red	1/2" (13mm)	\$2.15	\$1.94	\$1.44
215782	R9-46B-W100-12V-Y	1	Yellow	1/2" (13mm)	1.69	1.47	1.20
215791	R9-46B-W100-12V-G	1	Green	1/2" (13mm)	2.09	1.87	1.39
215749	R9-55B-W130-12V-R	2	Red	9/32" (7mm)	2.15	1.91	1.62
215758	R9-55B-W130-12V-Y	2	Yellow	9/32" (7mm)	1.65	1.45	1.19
215766	R9-55B-W130-12V-G	2	Green	9/32" (7mm)	1.95	1.75	1.48
215715	R9-71B-05-12V-R	3	Red	5/8" (16mm)	1.99	1.77	1.32
215723	R9-71B-05-12V-Y	3	Yellow	5/8" (16mm)	1.65	1.45	1.19
215732	R9-71B-05-12V-G	3	Green	5/8" (16mm)	1.85	1.65	1.24

## CMC 12V Incandescent Panel Mount Lamp **NEW**

Part No.	Product No.	Fig.	Color	Mounting Hole	1	10	100
1765515	1090QC1-12V	—	Red	.505"	\$2.79	\$2.41	\$2.27



## Incandescent Lamps

Part No.	Cross Ref.	Fig.	Description	Volts	MSCP	1	5	10	100
209390	14	1	G3 1/2 miniature screw	2.47	.50	\$ .46	\$ .414	\$ .331	\$ .248
209402	40	2	T3 1/4 miniature screw	6.3	.50	.21	.189	.151	.113
209411	44	3	T3 1/4 miniature bayonet	6.3	.90	.21	.19	.17	.125
209429	46	2	T3 1/4 miniature screw	6.3	.90	.37	.333	.283	.226
209437	47	3	T3 1/4 miniature bayonet	6.3	.50	.25	.22	.18	.13
209453	53	4	G3 1/2 miniature bayonet	14.4	1.0	.59	.55	.50	.40
209488	86	5	T1 3/4 wedge	6.3	.40	.20	.187	.174	.145
209787	755	3	T3 1/4 miniature bayonet	6.3	.33	.25	.225	.21	.193
209859	1818	3	T3 1/4 miniature bayonet	24.0	3.3	.81	.78	.75	.56
141073	2182	7	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
141065	2200	7	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
141057	6833	8	T 3/4 wire terminal	5.0	.05	1.25	1.15	1.07	.80
209998	7219	6	T1 wire terminal	12.0	.15	.35	.29	.25	.19
210008	7328	9	T1 3/4 bi-pin	6.0	.60	.89	.79	.69	.59
141006	7361	9	T1 3/4 bi-pin	5.0	.05	.27	.24	.216	.194
210032	7382	9	T1 3/4 bi-pin	14.0	.30	.75	.60	.53	.40
210059	7632	10	T1 1/4 bi-pin	28.0	.32	1.27	1.14	.91	.69
309673	6S6	11	S6 candelabra	120	—	.84	.80	.76	.57
210092	120MB	12	T2 miniature bayonet	120.0	1200	.89	.82	.75	.62

## CMC Incandescent Lamps **NEW**

Part No.	Product No.	Description	Volts	MSCP	1	10	100
1768118	6839	T1 sub midget flange	28.0	13	\$1.69	\$1.39	\$1.01

## Neon Lamps

Part No.	Cross Ref.	Fig.	Description	Voltage	1	5	10	100
27351	A1A (NE-2)	13	Wire terminal .6mA	65-120	\$ .42	\$ .35	\$ .31	\$ .26
210315	C2A (NE-2H)	13	Wire terminal	65-120	.29	.234	.207	.185


## CMC Neon Lamps **NEW**

Part No.	Product No.	Description	Voltage	5	50
1766067	2ML	Wire terminal .3A	65VAC	\$ .57	\$ .51
1770744	C2A	Wire terminal 1.9A	95VAC	.29	.261

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More Lamps available on our website. Visit us online today!

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
**New Sale Lower\$ QtySave**

## velleman Miniature Fluorescent Lamps

Add fluorescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer look and feel. Optional power supply below converts 12VDC input into 180V – 800V output needed by lights.

Part No.	Product No.	Description	1	10	25
239610	FLW1	White light	\$9.95	\$8.95	\$7.95
239636	FLPS1	12VDC PS	9.95	8.95	7.95



## Lamp Sockets and Lens

Lower \$\$\$

### Sockets

Part No.	Product No.	Fig.	Description	1	10	100
394257	35LH002	1	T3 1/4 screw-mini, non-insulated	\$ .64	\$ .50	\$ .47
394265	35LH003	2	T3 1/4 bayonet-mini, insulated	2.05	1.81	1.72
394273	35LH004	3	T3 1/4 bayonet-mini, non insulated	2.25	1.75	1.72
394281	35LH005	4	T3 1/4 bayonet-mini, insulated	2.25	1.77	1.72
394290	35LH006	5	T3 1/4 bayonet-mini, insulated	2.35	1.86	1.81
394302	35LH007	6	T3 1/4 bayonet-mini, insulated	1.95	1.59	1.51
394311	35LH008	7	T3 1/4 bayonet-mini, insulated	1.95	1.60	1.51
394329	35LH010	8	T3 1/4 screw-mini, insulated	.53	.42	.40
394337	35LH011	9	T3 1/4 bayonet-mini, insulated	1.99	1.58	1.51
394345	352-0100	10	T1 3/4 midget-screw, insulated	1.09	1.00	.89

### Lens

- Use with socket, P/N 394345, above

Part No.	Product No.	Fig.	Description	1	10	100
394370	351-0103	11	Clear, plastic	\$ .37	\$ .254	\$ .238

## JAMECO ValuePro LED Light Strip Modules

- Typical applications: running light or light source for under cabinets, closets, RV's, enclosures

Part No.	Cross Ref.	Color	Input Volt. Typ. (V@mA)	Total Flux Typ. (lm)	Wave Length (nm)	Viewing Angle (Deg.)	Pricing
683323	LS1155-150A112	Yellow	12 @ 150	25	590	100	\$12.95 \$12.29 \$11.49
683235	LS1255-150A112	Yellow	12 @ 150	25	590	100	12.95 12.29 11.49
683331	LS1155-525W404A	Red/blue/grn	4 @ 525	12.5	—	100	18.95 17.95 16.95

## Other Manufacturers — Great Deals

1586171	UY19209-627	White	12 @ 180	—	—	120	\$ .37 \$ .254 \$ .238
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## velleman Electroluminescence Wires

Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

- Powered by 2 AA batteries

Part No.	Product No.	Color	Length	1	10	25
263484	NWRB15	Blue	4.5'	\$21.95	\$20.95	\$19.95



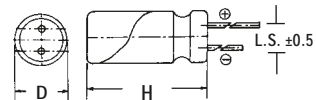
JAMECO ValuePro


**EXCLUSIVE**

## Aluminum Radial-Lead Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

## 85°C – General Purpose

Quantity SAVE

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609043	UVR2A0R1MDD	0.1	100V	5 x 11 x 2	*	\$ .103	\$ .07	\$ .048
330465	RA0.47/50	0.47	50V	5 x 11 x 2	*	.045	.039	.03
330431	RA1/25	1	25V	5 x 11 x 2	*	.045	.039	.03
94161	5R1/50	1	50V	5.2 x 11.6 x 2.3	*	.12	.08	.05
29833	R1/50	1	50V	5 x 11 x 2	*	.063	.053	.042
93731	R2.2/50	2.2	50V	5 x 11 x 2	*	.038	.033	.026
330449	RA4.7/25	4.7	25V	5 x 11 x 2	*	.039	.039	.03
31002	R4.7/50	4.7	50V	6 x 11 x 2	*	.042	.037	.029
198838	R10J/16	10	16V	5 x 11 x 2	*	.054	.036	.03
94212	5R10/25	10	25V	4 x 5 x 1.5	*	.13	.08	.05
94220	5R10/35	10	35V	5 x 5 x 2	*	.083	.057	.056
94370	7R10/35	10	35V	5 x 7 x 2	*	.11	.06	.04
29893	R10/50	10	50V	5 x 11 x 2	*	.067	.055	.045
330482	RA10/63	10	63V	5 x 11 x 2	*	.056	.047	.038
199049	R10J/100	10	100V	6 x 11 x 2.5	*	.07	.06	.05
330553	RA10/160	10	160V	8 x 11 x 3.5	*	.132	.108	.096
330608	RA10/250	10	250V	10 x 15 x 5	*	.192	.16	.126
330641	RA10/450	10	450V	13 x 21 x 5	.51	.39	.29	.22
198847	R22J/16	22	16V	5 x 11 x 2	*	.04	.035	.026
198942	R22J/35	22	35V	5 x 11 x 2	*	.035	.032	.028
93739	R22/50	22	50V	5 x 11 x 2	*	.068	.058	.053
199057	R22J/100	22	100V	6 x 11 x 2.5	.19	.11	.073	.061
198927	R33J/25	33	25V	5 x 11 x 2	*	.06	.047	.034
93747	R33/50	33	50V	6 x 11 x 2.5	*	.066	.06	.054
198863	R47J/16	47	16V	5 x 11 x 2	*	.04	.033	.024
198952	R47J/35	47	35V	5 x 11 x 2	*	.05	.04	.03
31116	R47/50	47	50V	6 x 11 x 2.5	*	.067	.056	.05
199073	R47J/100	47	100V	10 x 12 x 5	*	.15	.13	.10
330562	RA47/160S	47	160V	10 x 20 x 5	.41	.372	.299	.216
330617	RA47/250	47	250V	13 x 25 x 5	.57	.508	.447	.388
330676	RA47/450	47	450V	18 x 30 x 7.5	1.75	1.21	.92	.70
207813	R100/10	100	10V	5 x 11 x 2	*	.08	.06	.045
330422	RA100/16	100	16V	5 x 11 x 2	*	.068	.066	.058
94289±	5R100/16	100	16V	6 x 5 x 2.5	*	.15	.12	.09
94431	7R100/16	100	16V	6 x 7 x 2.5	*	.15	.12	.09
93763	R100/25	100	25V	6 x 11 x 2.5	*	.094	.068	.047
198970	R100J/35	100	35V	6 x 11 x 2.5	*	.07	.06	.05
29964	R100/50	100	50V	8 x 11 x 3.5	*	.078	.067	.056
330529	RA100/100	100	100V	10 x 20 x 5	.33	.282	.266	.19
330580R	RA100/160S	100	160V	13 x 16.26 x 26.42	.68	.60	.465	.324
330625	RA100/250	100	250V	16 x 30 x 7.5	1.51	1.13	.85	.60
330684	RA100/450	100	450V	22 x 42 x 10.5	3.39	3.03	2.08	1.87

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
135124	7R220/10	220	10V	6 x 7 x 2.5	*	\$ .136	\$ .10	\$ .074
198872	R220J/16	220	16V	6 x 11 x 2.5	.20	.11	.07	.06
30498	R220/25	220	25V	8 x 11 x 3.5	*	.096	.072	.06
93772	R220/35	220	35V	8 x 12 x 5	*	.09	.08	.07
93780	R220/50	220	50V	10 x 15 x 5	*	.201	.16	.12
609115	UVR2C221MHD	220	160V	16 x 35.5 x 7.5	1.32	1.02	.77	.55
609174	UVR2E221MRD	220	250V	20 x 40 x 10	2.75	2.32	1.80	1.35
608921	UVR1A331MED	330	10V	6.3 x 11 x 2.5	.25	.158	.108	.075
93798	R330/25	330	25V	8 x 12 x 3.5	*	.144	.10	.089
198978	R330J/35	330	35V	10 x 12 x 5	.25	.18	.14	.10
330472	RA330/50	330	50V	10 x 20 x 5	.32	.282	.226	.158
609001	UVR1J331MPD	330	63V	10 x 20 x 5	.50	.381	.29	.213
93811	R470/16	470	16V	8 x 11 x 3.5	*	.132	.124	.118
31182	R470/25	470	25V	8 x 14 x 5	*	.16	.134	.098
93819	R470/35	470	35V	10 x 16 x 5	.20	.17	.15	.13
93827	R470/50	470	50V	10 x 20 x 5	.39	.372	.252	.173
158465	R470B63	470	63V	12 x 20 x 5	.47	.44	.392	.291
609019	UVR1J471MHD	470	63V	12.5 x 20 x 5	.69	.514	.384	.284
199101	R470J/100	470	100V	16 x 25 x 7.5	.92	.76	.59	.522
609140	UVR2C471MRD	470	160V	22 x 40 x 10	2.55	1.98	1.53	1.14
330456	RA680/25S	680	25V	8 x 16 x 3.5	.97	.87	.70	.525
330393	RA1000/10	1000	10V	8 x 14 x 3.5	*	.132	.114	.091
30017	R1000/16	1000	16V	10 x 16 x 5	*	.192	.168	.144
93835	R1000/25	1000	25V	10 x 20 x 5	.28	.25	.23	.18
286045	Q399L	1000	35V	12 x 20 x 5	.35	.31	.248	.186
93843	R1000/50	1000	50V	13 x 25 x 5	.58	.51	.455	.38
608964	UVR1J102MHD	1000	63V	16 x 25 x 7.5	1.13	.87	.67	.476
199111	R1000J/100	1000	100V	18 x 40 x 7.5	2.29	2.06	1.65	1.24
133146	R2200/16	2200	16V	10 x 20 x 5	.44	.372	.321	.249
30535	R2200/25	2200	25V	13 x 21 x 5	.74	.66	.533	.40
198986	R2200J/35	2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
608956	UVR1H222MHD	2200	50V	16 x 35.5 x 7.5	1.59	1.20	.90	.64
198897	R3300J/16	3300	16V	12 x 25 x 5	.56	.457	.368	.357
30893	R3300/25	3300	25V	13 x 29 x 5	.95	.87	.66	.58
198994	R3300J/35	3300	35V	16 x 35 x 7.5	.87	.77	.67	.57
199013	R3300J/50	3300	50V	18 x 35 x 7.5	2.15	1.94	1.54	1.16
608930	UVR1A472MHD	4700	10V	12.5 x 25 x 5	.89	.68	.519	.366
198901	R4700J/16	4700	16V	16 x 25 x 7.5	.81	.72	.58	.44
93851	R4700/25	4700	25V	16 x 31 x 7.5	1.32	1.13	.90	.64
199005	R4700J/35	4700	35V	18 x 35 x 7.5	1.38	1.24	.94	.69
163302	R4700/50	4700	50V	22 x 42 x 10	2.25	2.03	1.62	1.21
198934	R6800J/25	6800	25V	18 x 35 x 7.5	2.05	1.96	1.49	1.15
608948	UVR1C103MHD	10,000	16V	18 x 35.5 x 7.5	1.59	1.23	.94	.67

## Other Manufacturers — Great Deals\*


Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
29833	R1/50	1	50V	5 x 11 x 2.0	*	\$ .063	\$ .053	\$ .042
31000	R4.7/50	4.7	50V	5 x 11 x 2.0	*	.046	.04	.032
29891	R10/50	10	50V	5 x 11 x 2.0	*	.06	.05	.04
93737	R22/50	22	50V	5 x 11 x 2.0	*	.032	.029	.026
31114	R47/50	47	50V	6 x 11 x 2.5	*	.06	.048	.036
93761	R100/25	100	25V	6 x 11 x 2.5	*	.084	.06	.042
29962	R100/50	100	50V	8 x 11 x 3.5	*	.084	.072	.06
30496	R220/25	220	25V	8 x 11 x 3.5	*	.096	.072	.06
93778	R220/50	220	50V	10 x 12 x 5.0	.24	.158	.113	.095
93809	R470/16	470	16V	8 x 11 x 3.5	*	.099	.095	.071


Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
31181	R470/25	470	25V	10 x 12 x 5.0	\$ .37	\$ .22	\$ .16	\$ .116
93817	R470/35	470	35V	10 x 16 x 5.0	.19	.162	.141	.118
93825	R470/50	470	50V	12 x 20 x 5.0	.35	.233	.193	.156
30015	R1000/16	1000	16V	10 x 16 x 5.0	.24	.192	.143	.107
93833	R1000/25	1000	25V	10 x 20 x 5.0	.41	.32	.29	.16
93841	R1000/50	1000	50V	12 x 25 x 5.0	.63	.458	.345	.31
30533	R2200/25	2200	25V	12 x 25 x 5.0	.66	.50	.39	.35
30891	R3300/25	3300	25V	16 x 25 x 7.5	.86	.63	.468	.435
93850	R4700/25	4700	25V	16 x 31 x 7.5	1.19	1.07	.96	.80
163301	R4700/50	4700	50V	22 x 42 x 10.0	2.45	2.15	1.87	1.61

\* Capacitor dimensions and styles may vary.

\* Blue Part No. = Limited Quantity Available

\* Capacitor dimensions and styles may vary.


 RoHS compliant product


 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

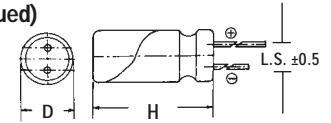
Details on page 1.

## Aluminum Radial-Lead Electrolytic Capacitors (±20%) (Continued)



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



**Quantity SAVE**

**Lower \$\$\$**

### 105°C – HT Type General Purpose

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609545	UVZ1H0R1MDD	0.1	50V	5 x 11 x 2	\$.22	\$.133	\$.092	\$.059
330772	RB1/50	1	50V	5 x 11 x 2	*	.068	.056	.042
158491	R1B100	1	100V	5 x 11 x 2	*	.072	.06	.048
609959	UVZ2E010MED	1	250V	6.3 x 11 x 2.5	.24	.17	.116	.077
610028	UVZ2W010MPD	1	450V	8 x 11.5 x 3.5	.31	.225	.158	.108
609561	UVZ1H2R2MDD	2.2	50V	5 x 11 x 2	.13	.103	.07	.052
609772	UVZ2A2R2MDD	2.2	100V	5 x 11 x 2	.20	.13	.091	.06
609887	UVZ2C4R7MED	4.7	160V	6.3 x 11 x 2.5	.30	.211	.149	.102
330851	RB4.7/250	4.7	250V	8 x 11 x 3.5	*	.168	.147	.126
330692	RB10/16	10	16V	5 x 11 x 2	*	.047	.041	.035
607849	UPW1H100MDD	10	50V	5 x 11 x 2	.20	.138	.10	.075
330799	RB10/50	10	50V	5 x 11 x 2	*	.068	.056	.044
609641	UVZ1J100MDD	10	63V	5 x 11 x 2	.20	.133	.10	.067
158530	R10B100	10	100V	6 x 11 x 2.5	*	.085	.075	.065
330844	RB10/160	10	160V	8 x 11 x 3.5	*	.149	.127	.095
330861	RB10/250	10	250V	10 x 17 x 5	.22	.207	.181	.162
610036	UVZ2W100MHD	10	450V	12.5 x 20 x 5	.84	.65	.493	.349
607110	UHE2A150MED	15	100V	6.3 x 11 x 2.5	*	.146	.108	.081
158327	R22B35	22	35V	5 x 11 x 2	*	.07	.05	.03
609650	UVZ1J220MDD	22	63V	5 x 11 x 2	.24	.17	.125	.077
609828	UVZ2C220MPD	22	160V	10 x 16 x 5	.45	.332	.241	.179
609975	UVZ2E220MHD	22	250V	12.5 x 20 x 5	.55	.407	.299	.216
607945	UPW1H330MED	33	50V	6.3 x 11 x 2.5	.26	.194	.141	.106
609991	UVZ2E330MHD	33	250V	12.5 x 20 x 5	.63	.465	.332	.241
609502	UVZ1C470MDD	47	16V	5 x 11 x 2	*	.138	.10	.068
607970	UPW1H470MED	47	50V	6.3 x 11 x 2.5	.29	.215	.15	.117
607988	UPW1H471MHD	47	50V	6.3 x 11 x 2.5	.82	.63	.48	.37
330820	RB47/50	47	50V	6 x 11 x 2.5	*	.10	.074	.051
608139	UPW1J470MPD	47	63V	8 x 11.5 x 3.5	.31	.23	.167	.125
609879	UVZ2C470MHD	47	160V	12.5 x 20 x 5	.63	.457	.332	.241
610010	UVZ2E470MHD	47	250V	12.5 x 25 x 5	.86	.65	.488	.348
330705	RB100/16	100	16V	6 x 11 x 2.5	*	.068	.057	.042
606686	UHE1E101MED	100	25V	6.3 x 11 x 2.5	*	.171	.125	.099
330740	RB100/25	100	25V	6 x 11 x 2.5	*	.067	.057	.048
330748	RB100/35	100	35V	8 x 11 x 3.5	.20	.084	.08	.074
158394	R100B50	100	50V	8 x 11 x 3.5	*	.108	.084	.066
606774	UHE1H101MPD	100	50V	8 x 11.5 x 3.5	.26	.211	.158	.119
608032	UPW1J101MPD6	100	63V	8 x 15 x 3.5	.44	.324	.241	.181
609748	UVZ2A101MPD	100	100V	10 x 20 x 5	.50	.373	.274	.204
609916	UVZ2D101MHD	100	200V	16 x 31.5 x 7.5	1.54	1.16	.87	.61
609967	UVZ2E101MHD	100	250V	16 x 31.5 x 7.5	1.55	1.21	.94	.70
608198	UPW1V151MPD	150	35V	8 x 11.5 x 3.5	.31	.24	.166	.125
606555	UHE1A221MED	220	10V	6.3 x 11 x 2.5	*	.138	.11	.083
311758	R220B10	220	10V	6 x 11 x 2.5	.45	.39	.36	.33
158263	R220B25	220	25V	8 x 11 x 3.5	*	.144	.108	.084
606820	UHE1H221MPD	220	50V	10 x 16 x 5	.30	.275	.226	.187
158406	R220B50	220	50V	10 x 12 x 5	.34	.306	.245	.184
609668	UVZ1J221MPD	220	63V	10 x 16 x 5	.56	.413	.307	.23
609764	UVZ2A221MHD	220	100V	12.5 x 25 x 5	.85	.66	.49	.357
606651	UHE1C331MPD	330	16V	8 x 11.5 x 5	.26	.203	.172	.136
609721	UVZ1V331MPD	330	35V	10 x 12.5 x 5	.35	.259	.183	.136
606846	UHE1H331MPD	330	50V	10 x 25 x 5	.46	.365	.282	.212
607136	UHE2A331MHD	330	100V	12.5 x 40 x 5	1.09	.99	.79	.59
609385	UVZ0J471MED	470	6.3V	6.3 x 11 x 2.5	.26	.194	.141	.102
158203	R470B16	470	16V	8 x 11 x 3.5	.32	.19	.13	.095
606678	UHE1C471MPD	470	16V	8 x 15 x 3.5	.26	.211	.169	.127

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
158289	R470B25	470	25V	10 x 15 x 3.5	*	\$.15	\$.12	\$.10
606740	UHE1E471MPD6	470	25V	10 x 16 x 5	.39	.316	.27	.213
330763	RB470/35	470	35V	10 x 15 x 5	.38	.322	.258	.194
609609	UVZ1H471MHD	470	50V	12.5 x 20 x 5	.84	.64	.481	.34
607988	UPW1H471MHD	470	50V	12.5 x 20 x 5	.82	.63	.48	.37
606854	UHE1H471MPD	470	50V	10 x 31.5 x 5	.60	.49	.374	.281
608016	UPW1H561MHD	560	50V	12.5 x 25 x 5	1.04	.77	.58	.453
606504	UHE0J681MPD	680	6.3V	8 x 11.5 x 3.5	.25	.203	.162	.122
606871	UHE1H681MHD	680	50V	12.5 x 31.5 x 5	.74	.59	.457	.343
607179	UHE2A681MHD	680	100V	18 x 35.5 x 7.5	1.43	1.12	.89	.67
607689	UPW1C821MPD	820	16V	10 x 20 x 5	.62	.462	.349	.262
606432	UHE0J102MPD	1000	6.3V	8 x 15 x 3.5	*	.146	.116	.102
609465	UVZ1C102MPD	1000	16V	10 x 16 x 5	.51	.324	.259	.194
606601	UHE1C102MPD	1000	16V	10 x 20 x 5	.44	.348	.275	.238
330722	RB1000/16	1000	16V	10 x 20 x 5	.23	.216	.19	.171
158298	R1000B25	1000	25V	10 x 17 x 5	.35	.29	.25	.19
607718	UPW1E102MHD	1000	25V	12.5 x 20 x 5	.86	.64	.457	.361
158378	R1000B35	1000	35V	13 x 12 x 5	.49	.44	.35	.26
609553	UVZ1H102MHD	1000	50V	12.5 x 25 x 5	.84	.62	.449	.324
607865	UPW1H102MHD	1000	50V	16 x 25 x 7.5	1.20	.91	.70	.59
606627	UHE1C122MPD	1200	16V	10 x 25 x 5	.40	.324	.249	.213
607232	UPW0J152MPD	1500	6.3V	10 x 20 x 5	.48	.365	.281	.23
607398	UPW1A152MPD6	1500	10V	10 x 25 x 5	.55	.419	.304	.235
607734	UPW1E152MHD	1500	25V	16 x 25 x 7.5	.96	.73	.56	.451
607873	UPW1H152MHD	1500	50V	16 x 31.5 x 7.5	1.55	1.20	.93	.69
606467	UHE0J182MHD	1800	6.3V	12.5 x 15 x 5	.36	.292	.224	.168
607751	UPW1E182MHD	1800	25V	12.5 x 31.5 x 5	1.25	.93	.69	.58
609342	UVZ0J222MPD	2200	6.3V	10 x 20 x 5	.52	.365	.257	.193
607427	UPW1A222MHD	2200	10V	12.5 x 20 x 5	.81	.62	.468	.351
606563	UHE1A222MPD	2200	10V	10 x 31.5 x 5	.57	.454	.349	.298
609490	UVZ1C222MHD	2200	16V	12.5 x 20 x 5	.82	.62	.476	.34
606643	UHE1C222MHD	2200	16V	12.5 x 25 x 5	.71	.58	.464	.348
609705	UVZ1V222MHD	2200	35V	16 x 25 x 7.5	1.38	1.05	.81	.57
608227	UPW1V222MHD	2200	35V	16 x 30.5 x 7.5	1.38	1.06	.81	.61
608235	UPW1V222MHD6	2200	35V	18 x 26 x 9	1.42	1.10	.85	.64
607064	UHE1V222MHD	2200	35V	16 x 31.5 x 7.5	1.12	1.01	.78	.68
606838	UHE1H222MHD6	2200	50V	18 x 35.5 x 7.5	1.53	1.20	1.05	.90
158431	R2200B50	2200	50V	16 x 35 x 7.5	.99	.89	.71	.53
609377	UVZ0J332MPD	3300	6.3V	13 x 20 x 5	.57	.429	.324	.238
609449	UVZ1A332MHD	3300	10V	12.5 x 20 x 5	.84	.62	.476	.34
607443	UPW1A332MHD6	3300	10V	12.5 x 31.5 x 5	.71	.53	.398	.298
606715	UHE1E332MHD	3300	25V	16 x 31.5 x 7.5	1.27	1.01	.78	.58
608278	UPW1V332MHD	3300	35V	18 x 35.5 x 7.5	1.79	1.40	1.08	.81
609588	UVZ1H332MHD	3300	50V	18 x 35.5 x 7.5	2.15	1.66	1.30	.97
609393	UVZ0J472MHD	4700	6.3V	12.5 x 20 x 5	.83	.66	.502	.357
609511	UVZ1C472MHD	4700	16V	16 x 25 x 7.5	1.49	1.18	.85	.63
607814	UPW1E472MHD	4700	25V	18 x 35.5 x 7.5	1.55	1.18	.89	.77
609457	UVZ1A682MHD	6800	10V	16 x 25 x 7.5	1.55	1.18	.91	.65
607697	UPW1C822MHD	8200	16V	18 x 35.5 x 7.5	1.89	1.49	1.15	.86
609473	UVZ1C103MHD	10,000	16V	18 x 35.5 x 7.5	1.95	1.49	1.15	.86

Blue Part No. = Limited Quantity Available

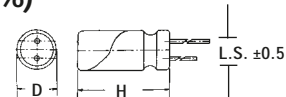
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**JAMECO** ValuePro

## Aluminum Radial-Lead Non-Polarized Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater


**85°C – General Purpose**

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
330941	RN1/50R	1	50V	5 x 11 x 2.0	*	\$ .159	\$ .085	\$ .075
330915	RN10/25⊕	10	25V	5 x 11 x 2.0	.28	.243	.194	.146
330983	RN10/50R	10	50V	8 x 11 x 3.5	.22	.198	.178	.16
331003	RN47/50R	47	50V	8 x 11 x 3.5	.46	.414	.314	.285
330894	RN100/16⊕	100	16V	8 x 11 x 3.5	.45	.405	.365	.328
331012	RN100/50R	100	50V	10 x 17 x 5.0	.69	.63	.467	.359

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SG; Panasonic: KA/KS/SU

## 85°C – Non-Polarized High-Frequency (Horizontal Deflection)

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
331151	RN4.7/25SR	4.7	25V	8 x 11 x 3.5	\$ .37	\$ .348	\$ .186	\$ .14

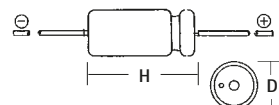
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**JAMECO** ValuePro


## Aluminum Axial-Lead Electrolytic Capacitors

General purpose 85°C maximum

**Quantity SAVE**


Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater



† CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
10868	A1/50R	1	50V	5 x 13	*	\$ .15	\$ .104	\$ .078
11078	A4.7/50R	4.7	50V	6 x 13	*	.11	.097	.073
199260	A10J/25R	10	25V	5 x 12	.20	.174	.15	.139
10883	A10/50⊕	10	50V	6 x 12	*	.167	.14	.105
331425	AB10/450R	10	450V	13 x 25	1.08	.99	.89	.67
199268	A22J/25R	22	25V	6 x 12	*	.205	.147	.109
10999	A22/50R	22	50V	6 x 12	*	.19	.14	.11
331433	AB22/450R	22	450V	16 x 26	1.99	1.66	1.51	1.37
135321	A47/25R	47	25V	8 x 16	*	.15	.14	.096
11107	A47/50R	47	50V	8 x 16	*	.19	.14	.11
199188	A100J/16R	100	16V	6.3 x 16	.39	.297	.266	.239
199284	A100J/25R	100	25V	8 x 16	.25	.20	.18	.15
10913	A100/50R	100	50V	8 x 20	.26	.245	.221	.199
331380	AB100/100R	100	100V	10 x 20	.85	.73	.57	.47
331408	AB100/160⊕	100	160V	16 x 26	2.09	1.86	1.68	1.51
331416	AB100/250⊕	100	250V	16 x 30	2.65	2.21	2.00	1.81
331299	AB150/50⊕	150	50V	10 x 17	.96	.86	.69	.518
199292	A220J/25R	220	25V	8 x 16	.29	.22	.188	.126
11019	A220/50R	220	50V	10 x 17	.35	.29	.25	.192
199217	A470J/16R	470	16V	8 x 16	.35	.286	.257	.193

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
199312	A470J/25⊕	470	25V	10 x 17	\$ .40	\$ .36	\$ .288	\$ .216
199381	A470J/35R	470	35V	10 x 21	.50	.404	.371	.278
11123	A470/50R	470	50V	13 x 21	.59	.49	.42	.34
93633	A1000/16R	1000	16V	10 x 20	.51	.46	.42	.347
10956	A1000/25R	1000	25V	10 x 20	.66	.54	.49	.38
93651	A1000/35R	1000	35V	13 x 25	.94	.83	.66	.545
147258	A1000/50R	1000	50V	16 x 25	.88	.77	.66	.545
199321	A2200J/25⊕	2200	25V	16 x 28	1.09	.90	.78	.59
93658	A2200/35R	2200	35V	16 x 30	1.25	1.10	.99	.85
199478	A2200J/50⊕	2200	50V	18 x 42	2.15	1.93	1.54	1.15
93666	A3300/25⊕	3300	25V	16 x 32	1.10	.99	.88	.77
199398	A3300J/35⊕	3300	35V	18 x 37	3.39	2.93	2.29	1.72
199487	A3300J/50R	3300	50V	22 x 43	2.19	1.96	1.77	1.59
199232	A4700J/16⊕	4700	16V	16 x 30	1.45	1.30	1.04	.78
93675	A4700/25R	4700	25V	16 x 30	1.69	1.49	1.29	.99
199401	A4700J/35⊕	4700	35V	18 x 40	2.79	2.51	2.01	1.51
158811	A4700A50R	4700	50V	25 x 43	2.79	2.29	2.09	1.79
199340	A6800J/25R	6800	25V	18 x 40	2.99	2.74	2.20	1.59
93682	A10000/16⊕	10000	16V	16 x 33	2.99	2.74	2.20	1.59

## Other Manufacturers — Great Deals\*

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
10866	A1/50	1	50V	5 x 13	\$ .20	\$ .17	\$ .125	\$ .094
11076	A4.7/50	4.7	50V	6 x 13	*	.162	.13	.088
93577	A10/35	10	35V	6 x 13	*	.105	.10	.09
10882	A10/50	10	50V	6 x 12	*	.15	.12	.08
135319	A47/25	47	25V	8 x 16	.25	.135	.115	.086
11105	A47/50⊕	47	50V	8 x 16	*	.108	.097	.087
93551	A100/35	100	35V	8 x 16	.27	.22	.19	.15

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
10911	A100/50	100	50V	8 x 20	\$ .33	\$ .287	\$ .23	\$ .172
10954	A1000/25	1000	25V	13 x 31	.52	.456	.365	.306
93649	A1000/35	1000	35V	13 x 26	.48	.437	.431	.388
147256	A1000/50	1000	50V	16 x 31	.67	.60	.48	.36
11033	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
93673	A4700/25	4700	25V	22 x 39	1.86	1.61	1.40	1.07
93681	A10000/16	10000	16V	22 x 51	2.25	2.05	1.85	1.49

\* Capacitor dimensions and styles may vary ⊕ Blue Part No. = Limited Quantity Available

**JAMECO** ValuePro

## Aluminum Axial-Lead Non-Polarized Electrolytic Capacitors

85°C – General purpose



Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing			
					1	10	100	500
331555	AN4.7/50⊕	4.7	50V	6 x 16	\$ .46	\$ .41	\$ .37	\$ .34
331563	AN10/50⊕	10	50V	6 x 16	.48	.43	.37	.30
331694	AN100/100⊕	100	100V	13 x 25	2.35	2.12	1.91	1.72

RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## We're Listening to What You Need

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JAMECO ValuePro

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing
- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C • Can-Top safety vent

† CROSS REFERENCES: Aero M: LP/LPR; Elna: LP3/LP4; Illinois Capacitor: LBA/LPR; Mallory: LPX; Marcon: CEAWF;

Nichicon: LLK/LLQ; Panasonic: TS-UP/TS-U; Phillips (MEPCO): 3487/3489; Rubycon: RSP; Sprague: 80D/82D; United Chemicon: SMG(VN)/SMH(VN)

115422



Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100
203246	SN330/400	330	400V	30 x 46	\$4.25	\$3.61	\$2.70
203263	SN470/400/5	470	450V	35 x 51	8.25	7.60	5.69
331898	SNB4700/50	4,700	50V	25 x 30	2.19	1.99	1.95
199312	SNB6800/50	6,800	50V	25 x 40	3.25	2.88	2.39
331759	SNA8200/80	8,200	80V	35 x 53	6.45	5.63	4.83
331900	SNB10000/50	10,000	50V	25 x 41	2.69	2.40	1.82

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100
157738	SN10000/50	10,000	50V	35 x 40	\$4.95	\$4.10	\$3.99
331716	SNA15000/25	15,000	25V	25 x 40	2.65	2.35	1.78

### Other Manufacturers — Great Deals\*

203254	SN470/400/4	470	400V	35 x 41	\$6.35	\$5.40	\$4.05
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\* Capacitor dimensions and styles may vary • Blue Part No. = Limited Quantity Available

**Panasonic®**

### EEU-FC Series

- Low impedance
- Capacitance tolerance: ±20%
- Long life: 1,000 - 5,000 hours @ 105°C
- Operating temperature range: -55°C to 105°C

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
861038	EEU-FC1A681	10	680µF	10 x 12.5 x 5	*	\$ .272	\$ .201
861097	EEU-FC1C560H	16	56µF	5 x 11 x 2	*	.084	.076
920659	EEU-FC1C471L	16	470µF	8 x 15 x 3.5	*	.272	.201
861062	EEU-FC1C392	16	390µF	16 x 25 x 7.5	1.38	1.07	.80
920683	EEU-FC1E331L	25	330µF	8 x 15 x 3.5	*	.272	.201
861214	EEU-FC1V390	35	39µF	5 x 15 x 2	*	.171	.139
861185	EEU-FC1V331B	35	330µF	10 x 16 x 5	*	Call	Call
861126	EEU-FC1H561S	50	560µF	18 x 15 x 7.5	1.26	.96	.72
861151	EEU-FC1J220	63	22µF	6.3 x 11.2 x 2.5	*	.148	.107
861273	EEU-FC2A330L	100	33µF	8 x 15 x 3.5	*	.299	.222

\* Please call or visit our website for minimum order quantity and pricing.

### ECA-M Series

- Miniaturized size version for general purpose use
- Operating temperature range: -40°C to 85°C
- Life: 2,000 hours @ 85°C

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
856888	ECA-1CM101	16	100µF	5 x 11 x 2	*	\$ .063	\$ .057
918962	ECA-1CM471	16	470µF	8 x 11.5 x 3.5	*	.144	.104
919050	ECA-1EM471	25	470µF	10 x 12.5 x 5	*	.223	.161
919025	ECA-1EM102	25	1000µF	10 x 20 x 5	*	.34	.252
856941	ECA-1EM472	25	4700µF	16 x 31.5 x 7.5	1.43	.98	.74
857004	ECA-1VM472	35	4700µF	18 x 35.5 x 7.5	2.10	1.44	1.09

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 246.



## TAP Series Epoxy Dipped Radial Tantalum Capacitors

TAP Series is a professional grade device manufactured with a flame retardant coating and featuring low "leakage current and impedance, very small physical size, and exceptional temperature stability".

Designed and conditioned to operate up to 125°C. Voltages listed are at 85°C, derate voltage 33% at 125°C.

### TAP Series (Bulk packaging)

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
						1	5	100
852511	TAP224K035SCS	A	22µF	35	10%	*	\$ .218	\$ .199
852351	TAP105K020SCS	A	1µF	20	10%	*	.384	.253
768491	TAP155K035CCS	B	1.5µF	35	10%	*	.359	.323
768520	TAP225M035CCS	B	2.2µF	35	20%	*	.402	.362
852570	TAP475M035SCS	A	4.7µF	35	20%	.55	.497	.447
768571	TAP685K035CCS	B	6.8µF	35	10%	.76	.68	.61
852393	TAP106K016SCS	A	10µF	16	10%	*	.429	.39
768482	TAP106M035SCS	A	10µF	35	20%	1.18	1.00	.82
852473	TAP106K035CCS	B	10µF	35	10%	.90	.85	.80
852490	TAP106K050SCS	A	10µF	50	10%	3.69	3.15	2.99

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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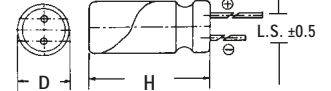


Snap-Ins!



### NHG Series

- Compact size
- Life: 1,000 to 2,000 hours @ 105°C
- Operating temperature range: -55°C to 105°C



\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
856845	ECA-1AHG102	10	1000µF	10 x 12.5 x 5	*	\$ .272	\$ .201
918997	ECA-1EHG471	25	470µF	10 x 12.5 x 5	*	.285	.211
856917	ECA-1EHG332B	25	3300µF	16 x 25 x 7.5	.98	.88	.79

### ECE-KS Series

- Low profile 5mm height for 3mm to 8mm diameter
- Shelf life: 1,000 hours
- Capacitance tolerance: ±20%
- Operating temperature range: -40°C to 85°C

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H x L.S.	Pricing		
					1	5	100
857039	ECE-A1CKS101	16	100µF	8 x 5 x 2.5	*	\$ .182	\$ .143

### ECO-TS Series • Tolerance: ±20%

#### TSUP Miniaturized Size General Purpose, -40°C to +85°C

Part No.	Product No.	Voltage	Capacitance Value	Size (mm) D x H	Pricing		
					1	10	100
860107	ECO-S2GP471EA	400	470µF	35 x 45	\$6.89	\$5.99	\$5.60

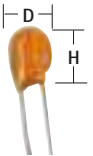
#### TSHA Miniaturized Size, Long Life & High Ripple Current, -40°C to +105°C

859915	ECO-S1HA682EA	50	6800µF	35 x 30	\$5.75	\$4.77	\$3.34
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#### TSHB Compact Size, Long Life & High Ripple Current, -40°C to +105°C

860140	ECO-S2WB471EA	450	470µF	35 x 50	\$12.29	\$10.84	\$10.30
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Case	H	D
A	8.5mm (0.330")	4.5mm (0.180")
B	9.0mm (0.350")	4.5mm (0.180")
C	10.0mm (0.390")	5.0mm (0.200")



### TAP Series (Bulk packaging) (Continued)

Lower \$\$\$

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
						1	10	100
852553	TAP226K035CCS	B	22µF	35	10%	\$2.03	\$1.94	\$1.71
768538	TAP226K035HSB	C	22µF	35	10%	2.39	2.14	1.93
768554	TAP476M020HSB	C	47µF	20	20%	1.99	1.81	1.63
768562	TAP476M035CCS	B	47µF	35	20%	5.09	4.17	3.98

### TAP Series (Tape and Reel)

For more AVX Capacitors visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing		
						1	10	100
852457	TAP106K025SRW	A	10µF	25	10%	*	Call	Call
852431	TAP106K025CRW	B	10µF	25	10%	*	Call	Call

\* Please call or visit our website for minimum order quantity and pricing

JAMECO ValuePro

## Resin Dipped Solid Tantalum Capacitors (±10%)

- Operating temp. range: -55°C to +85°C (+125°C with derating)
- Rated voltage DC: ≤ +85°C
- Low leakage current
- Exceptional temperature stability
- Moisture-resistant
- Flame retardant coating
- Designed for entertainment and commercial equipment



Quantity SAVE



† Cross References: Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Matsuo: 202; Kemet: T350/ T360; Mepco: 49GS; NEC: DN; Nichicon: 599; NIC: NDTM; Hitachi: TSD-3

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
154862	TM1/25	.10	25	4.5 x 7 x 2.5	\$.32	\$.29	\$.25	\$.22
33488	TM.1	.10	35	4.5 x 7 x 2.5	.32	.285	.217	.171
332111	TDR0.1/50	.10	50	4.5 x 7 x 2.5	.33	.296	.213	.198
545570	TAP104K050SCS	.10	50	4 x 6 x 2.5	.32	.288	.252	.23
33508	TM.22	.22	35	4.5 x 7 x 2.5	.31	.285	.217	.163
33525	TM.33	.33	35	4.5 x 7 x 2.5	.25	.225	.19	.143
546038	TAP474K035SCS	.47	35	4.3 x 7 x 2.5	.27	.231	.214	.208
33533	TM.47	.47	35	4.5 x 7 x 2.5	.22	.20	.15	.14
545588	TAP105K025SCS	1	25	4.3 x 7 x 2.5	.28	.233	.196	.186
545596	TAP105K035SCS	1	35	4.3 x 7 x 2.5	.20	.169	.154	.151
545561	TAP104K035SCS	0.1	35	4 x 6 x 2.5	.27	.20	.188	.175
33664	TM1	1	35	4.5 x 7 x 2.5	.32	.29	.25	.22
545609	TAP105K050SCS	1	50	4.7 x 7.5 x 2.5	.31	.26	.239	.232
332145	TDR1/50	1	50	8.0 x 5 x 2.5	.38	.33	.26	.219
545705	TAP155K025SCS	1.5	25	4.3 x 7 x 2.5	.32	.269	.216	.20
94003	TM2.2/16	2.2	16	4.5 x 7 x 2.5	.26	.228	.192	.144
33736	TM2.2/35	2.2	35	5 x 8 x 2.5	.47	.42	.33	.221
545801	TAP225K025SCS	2.2	25	4.3 x 7 x 2.5	.25	.21	.206	.197
545810	TAP225K035SCS	2.2	35	4.3 x 7 x 2.5	.26	.24	.232	.214
545941	TAP335K025SCS	3.3	25	4.3 x 7 x 2.5	.34	.303	.242	.182
546071	TAP475K025SCS	4.7	25	4.3 x 7 x 2.5	.39	.35	.295	.278
546089	TAP475K035SCS	4.7	35	4.7 x 7.5 x 2.5	.34	.292	.234	.187
546185	TAP685K025SCS	6.8	25	4.7 x 7.5 x 2.5	.52	.45	.36	.298
33875	TM6.8	6.8	35	6.5 x 11 x 2.5	.59	.45	.36	.32
545617	TAP106K006SCS	10	6.3	4.3 x 7 x 2.5	.40	.335	.274	.249
545625	TAP106K010SCS	10	10	4.7 x 7.5 x 2.5	.43	.284	.266	.238
94062	TM10/16	10	16	5 x 8 x 2.5	.45	.39	.29	.25
545633	TAP106K020SCS	10	20	5.4 x 8 x 2.5	.60	.51	.42	.38
545641	TAP106K025SCS	10	25	5.4 x 8 x 2.5	.59	.51	.41	.39

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
94080	TM10/25	10	25	5.5 x 9.5 x 2.5	\$.59	\$.50	\$.40	\$.36
545650	TAP106K035SCS	10	35	5.4 x 8 x 2.5	.98	.90	.72	.54
33691	TM10	10	35	5.5 x 11 x 2.5	.89	.79	.69	.59
332161	TDR10/50	10	50	8.5 x 13 x 2.5	3.78	3.34	2.73	2.04
545730	TAP156K016SCS	15	16	5.4 x 8 x 2.5	.54	.46	.44	.41
545692	TAP154K035SCS	15	35	4 x 6 x 2.5	.21	.189	.151	.113
545836	TAP226K006SCS	22	6.3	4.7 x 7.5 x 2.5	.45	.42	.394	.34
545844	TAP226K010SCS	22	10	5.4 x 8 x 2.5	.51	.44	.425	.411
545852	TAP226K016SCS	22	16	5.4 x 8 x 2.5	.41	.36	.34	.329
94095	TM22/16	22	16	5.5 x 9.5 x 2.5	.76	.65	.54	.50
545879	TAP226K025SCS	22	25	6 x 9.4 x 2.5	1.75	1.27	1.15	1.08
545887	TAP226K035SCS	22	35	7 x 11 x 2.5	1.43	1.22	1.19	1.07
332101	TDR22/35	22	35	8.5 x 13 x 2.5	2.49	2.13	1.50	1.13
545975	TAP336K006SCS	33	6.3	5.4 x 8 x 2.5	.36	.306	.245	.184
545991	TAP336K016SCS	33	16	6 x 9.4 x 2.5	1.24	1.05	.86	.77
546100	TAP476K010SCS	47	10	6 x 9.4 x 2.5	1.06	.91	.88	.84
546118	TAP476K016SCS	47	16	6 x 9.4 x 2.5	1.65	1.41	1.33	1.20
94124	TM47/16	47	16	6.5 x 11 x 2.5	1.85	1.69	1.47	1.04
33823	TM47	47	25	9.5 x 16.5 x 2.5	3.69	3.33	2.82	2.12
546126	TAP476K035SCS	47	35	8.2 x 12.5 x 5	5.65	5.09	3.85	2.89
546214	TAP686K010SCS	68	10	6 x 9.4 x 2.5	1.55	1.39	1.12	.84
546222	TAP686K016SCS	68	16	7 x 11 x 2.5	1.95	1.69	1.35	1.01
332100	TDR68/25	68	25	9.5 x 16.5 x 2.5	6.59	5.89	4.63	3.29
545668	TAP107K006SCS	100	6.3	6.0 x 9.4 x 2.5	1.35	1.22	.97	.73
33702	TM100	100	6.3	8.5 x 13 x 2.5	1.19	1.09	.95	.85
597450	TAP107K016SCS	100	16	7 x 11 x 2.5	4.95	4.16	3.40	3.06
545684	TAP107K020SCS	100	20	8.2 x 12.5 x 2.5	5.65	4.77	3.90	3.77
545772	TAP157K010SCS	150	10	7 x 11 x 2.5	3.89	3.50	2.80	2.10
545895	TAP227K010SCS	220	10	8.2 x 12.5 x 2.5	4.85	4.40	3.94	3.81

## Other Manufacturers — Great Deals\*

33486	TM.1	.10	35	4.5 x 7	\$.23	\$.225	\$.171	\$.135
33507	TM.22	.22	35	4.5 x 7	.27	.237	.184	.137
33523	TM.33	.33	35	4.5 x 7	.28	.251	.216	.196
33531	TM.47	.47	35	4.5 x 7	.24	.219	.182	.179
154860	TM1/25	1	25	4.5 x 7	.30	.246	.194	.168
33662	TM1	1	35	4.5 x 7	.29	.261	.225	.198
94001	TM2.2/16	2.2	16	4.5 x 7	.35	.288	.212	.159
94035	TM4.7/16	4.7	16	5 x 8	.36	.284	.216	.195
94043	TM4.7/25	4.7	25	5 x 8	.35	.312	.273	.248
33806	TM4.7	4.7	35	5.5 x 9.5	.41	.378	.333	.243

33873	TM6.8	6.8	35	6.5 x 11	\$.52	\$.468	\$.374	\$.281
94060	TM10/16	10	16	5 x 8	.41	.351	.261	.225
94078	TM10/25	10	25	5.5 x 9.5	.53	.45	.36	.324
33689	TM10	10	35	6.5 x 11	.80	.71	.62	.53
33718	TM15	15	25	6.5 x 11	.96	.87	.78	.70
94094	TM22/16	22	16	5.5 x 9.5	.62	.53	.441	.405
94107	TM22/25	22	25	8.5 x 13	1.79	1.39	1.29	1.22
33785	TM33	33	25	8.5 x 13	2.09	1.89	1.45	.95
94123	TM47/16	47	16	6.5 x 11	1.54	1.34	1.14	.93
33822	TM47	47	25	9.5 x 16.5	3.29	2.72	2.18	1.96
33700	TM100	100	6.3	8.5 x 13	1.31	1.18	.95	.71

\* Capacitor dimensions and styles may vary    \* Blue Part No. = Limited Quantity Available

## Metallized Polyester Film Mylar Capacitors (±10%)

- High performance at low cost
- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: ≤ 0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec

† Cross References: Panasonic: ECO-E Series; Sprague: DF/450P/451P/453P; Westlake: 160/168/185/167/184/186;

Rubycon: MC/MN; Mepco: 713A1/719A1/C280; TRW: X601PE/ X601CPE; Packtron: MF/RB; Secor: MMKS/MMKR/MMDR; RIFA: PHE353/ PHE354;

Roederstein: MKT 1818/MKT 1822; WIMA: MKS; CSF Thompson: MD/ MC; Siemens: B325X-XX; NIC: NEM/NRM; Nichicon: DDXM; Phillips: 712 A1 series

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm)* L x T x H	Pricing			
					1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0	\$.092	\$.062	\$.048	
26876	MY.0047	.0047	100	6.0 x 3.0 x 9.0	\$.14	.119	.107	
26884	MY.01	.01	100	6.0 x 3.0 x 7.0	.13	.096	.091	
26905	MY.022	.022	100	6.0 x 3.0 x 10.0	.15	.10	.06	
26921	MY.033	.033	100	8.0 x 4.0 x 11.0	.092	.074	.056	
26930	MY.047	.047	100	8.0 x 4.0 x 12.0	.20	.15	.11	
135562	MY.1/50	.1	50	14.0 x 6.0 x 12.0	.14	.12	.094	

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm)* L x T x H	Pricing			
					1	10	100	1000
26956	MY.1	.1	100	12.5 x 5.0 x 9.5	\$.33	\$.28	\$.222	\$.143
93921	MY.1/250	.1	250	12.5 x 5.5 x 10	.17	.14	.122	
26972	MY.22	.22	100	12.5 x 5.5 x 10	.21	.19	.12	.085
93964	MY.33/250	.33	250	18.0 x 7.0 x 12.5	.26	.227	.182	.137
27001	MY1	1.0	100	18.0 x 7.5 x 14.0	.65	.537	.40	.278
93981	MY1/250	1.0	250	26.0 x 9.0 x 16.0	.53	.38	.33	.25
93999	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0	1.11	.90	.75	.65

† ±20% tolerance    \* Capacitor dimensions and styles may vary

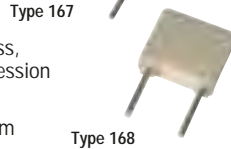
RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# Memory Back-Up, Metallized & Film Capacitors



## Metallized Polyester Radial-Lead Capacitors

- Non-inductively wound
- Non-polarized
- Rugged plastic case
- Case and epoxy fill meets UL94V-0
- Good for general purpose applications such as bypass, decoupling, energy storage/discharge and arc suppression



### Type 167 (±5%)

- 7.5mm (0.3") lead spacing • Length: 10.5mm
- Operating temperature range: -55°C to 125°C
- Dielectric withstanding voltage: 1.6 x rated voltage for 2 seconds

Part No.	Product No.	Value (µF)	Volt. (VDC/VAC)	Th. x H (mm)	1	10	100	500
528391	167104J63A	.10	63/40	3.5 x 7	\$.45	\$.40	\$.381	\$.363
528382	167104J100A	.10	100/63	3.5 x 7	.45	.424	.392	.351
528366	167103J250A	.01	250/160	3.5 x 7	.28	.269	.258	.235
528374	167103J400A	.01	400/200	3.5 x 7	.46	.435	.413	.358
528358	167102J630A	.001	630/220	3.5 x 7	.42	.401	.381	.257

Blue Part No. = Limited Quantity Available

### Type 168 (±5%)

- 5mm (0.197") lead spacing • Length: 7.2mm • Low leakage

Part No.	Product No.	Value (µF)	Volt. (VDC/VAC)	Th. x H (mm)	1	10	100	500
528438	168104J50A	.10	50/30	2.5 x 6.5	\$.33	\$.293	\$.264	\$.238
528462	168105J50G	1.00	50/30	6 x 11	.85	.84	.83	.82
528497	168224J63C	.22	63/40	3.5 x 7.5	.44	.407	.385	.363
528534	168334J63H	.33	63/40	4.5 x 8.5	.55	.52	.494	.428
528577	168474J63H	.47	63/40	4.5 x 8.5	.55	.54	.53	.52
528500	168332J100A	.0033	100/63	2.5 x 6.5	.28	.251	.228	.207
528542	168472J100A	.0047	100/63	2.5 x 6.5	.28	.256	.233	.213
528420	168103J100A	.010	100/63	2.5 x 6.5	.26	.249	.224	.169
528489	168223J100A	.022	100/63	2.5 x 6.5	.25	.238	.229	.207

## Panasonic® Memory Back-Up Capacitors

### Electric Double Layer Gold Capacitors

- Operating temperature range: -25°C to 70°C
- Rated working voltage: 5.5V
- Capacitance tolerance: 20-80%
- Horizontal



### SD Series

Part No.	Product No.	Nominal Capacitance	Internal Resistance (ohms, 1kHz)	Pricing
860801	EEC-S0HD104H	.10F	≤30	1 \$1.67 10 \$1.30 100 \$1.02

### SG Series

Part No.	Product No.	Nominal Capacitance	Internal Resistance (ohms, 1kHz)	Pricing
860861	EEC-S5R5H47A	.47F	30	1 \$4.25 10 \$3.63 100 \$2.85

## Memory Back-Up Capacitors

### Applications:

- Memory back-up of remote controllers
- Back-up on CMOS microcomputers, static RAM, DTSS (digital tuning systems)

### Features:

- Small size vs. capacitance • Volt.: 5.5VDC
- Excellent volt. holding characteristics for low back-up currents

Part No.	Cross Ref. No.	Value (F)	Size (mm) L x T x Dia.	1	10	100
142957	MBC1.0/5.5	1.0	—	\$4.49	\$3.99	\$3.79
227811	S5R5V105	1.0	24.2 x 4.3 x 18.0	4.49	3.82	2.86



## V Series ±5% Stacked Metallized Film Capacitors

- High volumetric efficiency
- Low dissipation factor: 1% max.
- Stacked & non-inductive construction
- Operating temperature range: -40°C to 85°C



For more Panasonic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

\* Minimum order 5 pieces

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing
920464	ECQ-V1103JM	.01	100	7.3 x 3.2 x 7 x 5	1 \$1.124 5 \$1.104
920536	ECQ-V1H223JL	.022	50	7.3 x 3.2 x 5 x 5	1 .121 5 .102
860684	ECQ-V1473JM	.047	100	7.3 x 4 x 7 x 5	1 .107 5 .09
860772	ECQ-V1H683JL	.068	50	7.3 x 3.2 x 5 x 5	1 .101 5 .085
920510	ECQ-V1H104JL	.1	50	7.3 x 4 x 5 x 5	1 .105 5 .088
920499	ECQ-V1104JM	.1	100	7.3 x 5.8 x 7 x 5	1 .121 5 .102
920561	ECQ-V1H224JL	.22	50	7.3 x 4.8 x 5.5 x 5	1 .13 5 .11
920595	ECQ-V1H474JL	.47	50	7.3 x 6 x 7.3 x 5	1 .177 5 .148
860713	ECQ-V1474JM	.47	63	10.2 x 4.5 x 9 x 7.5	1 .227 5 .191
920624	ECQ-V1J474JM	.47	100	10 x 8.1 x 11 x 7.5	1 .174 5 .146

\* Please call or visit our website for minimum order quantity and pricing.



## Axial-Lead Metallized Polyester Capacitors

### Type 150 (±5%)

- Flame retardant wrap & fill axial capacitors • Epoxy end fill meets UL94V-0
- Flame retardant outer wrap meets UL510 • Non-inductively wound
- General purpose capacitor for use in blocking, bypass, decoupling, smoothing, and timing applications • Non polarized

Part No.	Product No.	Value (µF)	Volts	L x Dia. (mm)	1	10	100	500
527911	150104J100AA	.10	100	11 x 5	\$.47	\$.444	\$.433	\$.422
527961	150224J100CB	.22	100	16.5 x 6.5	.56	.533	.522	.51
527996	150474J250HC	.47	250	20.5 x 9.5	.82	.77	.73	.68
527902	150103J400AA	.010	400	11 x 5	.46	.43	.404	.377
527890	150102J630AA	.001	630	11 x 5	.51	.49	.47	.423
527937	150104J630FE	.10	630	28 x 8.5	1.06	.99	.94	.88



## Polyester & Polypropylene Film/Foil Capacitors

### Type PVC (±10%)

- Non-inductively wound • Non-polarized
- Rugged epoxy case material meets UL94V-0
- Crimped leads for secure PCB insertion
- Insulation resistance: polyester – 100,000MΩ
- Voltage range: polyester – 100VDC to 1000VDC; polypropylene – 1200VDC to 2000VDC for ≤0.25µF, 25,000MΩ >0.25µF; polypropylene – 400,000MΩ ≤0.50µF, 200,000MΩ ≥0.50µF
- Dielectric withstanding voltage: 250% rated voltage for <1000V, 200% rated voltage for ≥1000V



### 200VDC/140VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536930	PVC211	.10	17.8 x 8.4	12.7mm	\$1.09	\$1.01	\$.91	\$.86

### 400VDC/200VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536948	PVC401	.10	30.5 x 13.5	24.6mm	\$1.95	\$1.74	\$1.56	\$1.40

### 600VDC/200VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536999	PVC6147	.047	30.5 x 14.2	24.6mm	\$.89	\$.80	\$.78	\$.76
536956	PVC601	.10	130.5 x 16.5	24.6mm	2.45	2.18	1.96	1.76

### 1000VDC/200VAC, 60Hz

Part No.	Product No.	Value (µF)	L x Dia. (mm)	Spacing	1	10	100	1000
536884	PVC10010	.10	40.6 x 21.6	34.1mm	\$3.55	\$3.45	\$3.27	\$3.11

Blue Part No. = Limited Quantity Available

[www.Jameco.com](http://www.Jameco.com)

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♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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# Polyester, Suppressor, Mica & Snap-In Capacitors

Color Code Legend			
New	Sale	Lower\$	QtySave

## Panasonic® Polyester Capacitors

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- Operating temperature range: -40°C to 85°C



### ECQB(F) Series

- Capacitance tolerance: 5%
- Construction: polyester film, non-inductive epoxy coating
- High volumetric efficiency, low loss, high stability

\* Minimum order 5 pieces

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					1	5	50
860203	ECQ-B1H104JF4	.1	50	8 x 5 x 10 x 5	★	Call	Call
860238	ECQ-B1H334JF	.33	50	13 x 6.5 x 15 x 10	*	.84	.76

★ Please call or visit our website for minimum order quantity and pricing.

### ECQP(U) Series

- Capacitance tolerance: 5%
- Flame retardant epoxy resin coating
- Non-inductive construction
- Dissipation factor: 0.1% max. @ 1kHz

860502	ECQ-P6102JU	.001	630	14.5 x 15.5 x 5 x 10	*	\$.272	\$.228
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### ECQP(Z) Series

- Capacitance tolerance: 2%
- High insulation resistance
- Non-inductive construction
- Close capacitance tolerance
- Low dissipation factor: 1% max. @ 1kHz
- Epoxy resin coating

860414	ECQ-P1H152GZ	.0015	50	8.5 x 7.5 x 4.5 x 5	*	\$.378	\$.319
860431	ECQ-P1H182GZ	.0018	50	8.5 x 7.5 x 4.5 x 5	*	.378	.319
860465	ECQ-P1H272GZ	.0027	50	8.5 x 7.5 x 4.5 x 5	*	.378	.319

### ECQE(B) Series Miniaturized Metallized

- Capacitance tolerance: ±10% @ 1kHz
- Wound metallized polyester dielectric
- Non-inductive construction
- Down sized version of ECQE(F) version

860326	ECQ-E2225KB	2.2	250	20.8 x 15.6 x 8.4 x 17.5	\$.95	\$.81	\$.61
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### ECQE(F) Series Miniaturized Metallized

- Capacitance tolerance: ±10%
- Dissipation factor: 1% max.

860385/860262:

- Self-healing property
- Flame retardant epoxy resin coating

860351	ECQ-E6473K2	.047	630	17 x 13.5 x 7 x 1	\$.56	\$.49	\$.38
860297	ECQ-E2104KS	.10	250	12.5 x 10.5 x 5.5 x 1	*	.213	.169
860262	ECQ-E1275KF	2.7	100	18.5 x 15.8 x 8 x 15	1.67	1.31	.98

## CDE Radial Metallized Polyester RC Network for Transient Suppression Capacitors

### Type Q/QRL (Quencharc®) Arc Suppressor/ Snubber Network

- Noise and arc suppression
- Type QRL – UL/CSA version
- Voltage range: 200VDC/125VAC
- Size: 27.4L x 9.4Th. x 16.3H mm
- Noise reduction on controllers and drives
- Relay contact protection
- Lead spacing: 20.8mm
- EMI/RFI reduction
- Resistor tolerance: ±10%
- Capacitance tolerance: ±20%

Part No.	Product No.	Value (µF)	Resistor Value	1	10	100	500
527881	105M02QB47	1.0	1/2W; 100Ω	\$5.19	\$5.09	\$4.86	\$4.62

Blue Part No. = Limited Quantity Available

## Panasonic® Interference Suppressor Capacitors (X-Y Series Metallized Film)

- Capacitance tolerance: ±20%
- Dissipation factor: less than 1% @ 1kHz

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### ECQU(N) Series – Class X2

- Operating temperature range: -40°C to 85°C

Part No.	Product No.	Value (µF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					1	10	100
860650	ECQ-U2A473MNR	.047	250	25.5 x 14 x 7.0 x 21.5	\$1.15	\$ .99	\$ .82

### ECQU(G) [Class X1] and ECQU(L) [Class X2, Class Y2/X2] Series

- Operating temperature range: -40°C to 100°C

860625	ECQ-U2A473ML	.047	250/275	15 x 13 x 6 x 12.5	*	\$.166	\$.131
860537	ECQ-U2A104MG	.1	250/275	15 x 16.5 x 8 x 12.5	1.04	.90	.71

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## CDE

## Standard Dipped Mica Capacitors

### Type CD15/CD19/CDV19

- High temperature up to 150°C
- Dimensions meet EIA RS153B specifications
- 100,000V/µs dV/dt pulse capability minimum
- Dielectric strength: 200% of rated voltage
- Tolerance: ±1/2pF (D); ±pF (C); ±1.2% (E); ±1% (F); ±2% (G); ±5% (J)

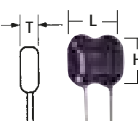


Part No.	Product No.	Value (pF)	Volt (VDC)	Size (mm) LxHxTh.	Spacing (mm)	Pricing			
						1	10	100	1000
530466	CD15ED200D03	20	500	11.4x9.1x4.3	5.9	\$.84	\$.76	\$.69	\$.62
530511	CD15ED270J03	27	500	11.4x9.1x4.3	5.9	.72	.66	.59	.55
530669	CD15ED820J03	82	500	11.4x9.1x4.6	5.9	.55	.54	.53	.52
531039	CD19FD102J03	1000	500	16.5x13.2x5.6	8.7	1.19	1.18	1.16	1.15
531194	CD19FD392J03	3900	500	17.5x14.2x7.9	8.7	3.59	3.51	3.47	3.43
531776	CDV19F391J03	390	1000	16.5x13x5.1	8.7	1.29	1.21	1.18	1.14

Blue Part No. = Limited Quantity Available

## Dipped Silver Mica Capacitors (±5%) Metallized Polyester Film Capacitors

- Case type: DM15
- Lead Space: 0.23"
- Tolerance: ±5%
- Operating temp. range: -55° to +125°C



Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) L x T x H	1	10	100	1000
16037	DM220	22pF	500	11 x 4 x 9	\$.52	\$.43	\$.343	\$.28
16096	DM470	47pF	500	11 x 4 x 9	.46	.414	.331	.248
16002	DM101	100pF	500	11 x 4 x 9	.45	.36	.30	.25
16088	DM331	330pF	500	11 x 4 x 9	.89	.73	.55	.413
16109	DM471	470pF	500	11 x 4 x 9	1.05	.86	.69	.59

\* Capacitor dimensions and styles may vary

## Panasonic®

## Snap-In Capacitor

### T-UP Series

- Top vent construction
- 4-pin terminal provides stability and keyed polarity
- General purpose rated at 85°C, 3,000 hours
- Operating temperature range: -40°C to 85°C

For more Panasonic Snap-In Capacitors visit [www.Jameco.com](http://www.Jameco.com)



Part No.	Product No.	Value (µF)	Volts	Dia. x L (mm)	1	10	100
857063	ECE-T2GP102FA	1000	400	40 x 60	\$13.01	\$12.45	\$9.99

## CDE

## Radial Snap-In Capacitors

### Type LP (±20%)

- High reliability
- Small size, rated for low-voltage applications
- Ideal for use in switch-mode power supplies
- PVC sleeve insulation
- Polarized
- Stable ESR



Part No.	Product No.	Value (µF)	Volts	Dia. x L (mm)	1	10	100	500
535881	LP272M035C1P3	2,700	35	25 x 25	\$2.95	\$2.71	\$2.46	\$2.24
535873	LP222M025H9P3	22,000	25	35 x 50	5.95	5.24	4.98	4.88

### Type LPX (±20%)

- Compact design for high density packaging
- High capacitance
- Ideal for high voltage switch-mode power supply input filtering applications
- Low voltage
- Polarized
- PVC insulating sleeve

Part No.	Product No.	Value (µF)	Volts	Dia. x L (mm)	1	10	100	500
535988	LPX101M450C3P3	100	450	25 x 30	\$4.85	\$4.36	\$3.92	\$3.52

Blue Part No. = Limited Quantity Available

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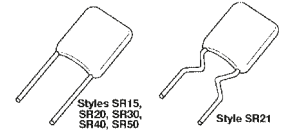


## Radial Ceramic Capacitors

- Conformally coated radial leaded MLC
- Temperature coefficients: NPO, X7R, Z5U
- Case material: epoxy
- Lead material: 24AWG solid copper plated

AVX Style	SR15 (A) Case	SR21 (B) Case	SR30 (C) Case	SR40 (D) Case	SR50 (E) Case
Width (W)	3.81mm (0.150")	5.08mm (0.200")	7.62mm (0.300")	10.16mm (0.400")	12.70mm (0.500")
Height (H)	3.81mm (0.150")	5.08mm (0.200")	7.62mm (0.300")	10.16mm (0.400")	12.70mm (0.500")
Thickness (T)	2.54mm (0.100")	3.175mm (0.125")	3.81mm (0.150")	3.81mm (0.150")	5.08mm (0.200")
Lead spacing (L.S.)	2.54mm (0.100")	5.08mm (0.200")	5.08mm (0.200")	5.08mm (0.200")	10.16mm (0.400")
Lead diameter (L.D.)	0.508mm (0.020")	0.508mm (0.020")	0.508mm (0.020")	0.508mm (0.020")	0.635mm (0.025")

For more AVX Ceramic Capacitors visit [www.Jameco.com](http://www.Jameco.com)



### NPO Leaded Case

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	10	100
849194	SR151A100JAA ♣	NPO	10pF	100	5%	A	*	\$ .149	\$ .137
767324	SR151A180JAA ♣	NPO	18pF	100	5%	A	*	.162	.158
767341	SR151A220JAA ♣	NPO	22pF	100	5%	A	*	.162	.158
767359	SR151A220JAR ♣	NPO	22pF	100	5%	A	*	.162	.158
849274	SR151A220KAA ♣	NPO	22pF	100	10%	A	*	.138	.135
767447	SR151A680JAA ♣	NPO	68pF	100	5%	A	*	.149	.137
767455	SR151A680KAA ♣	NPO	68pF	100	10%	A	*	.15	.144
767800	SR211A680JAA ♣	NPO	68pF	100	5%	B	*	.191	.189
849215	SR151A101JAA ♣	NPO	100pF	100	5%	A	*	.102	.099
849240	SR151A101KAA ♣	NPO	100pF	100	10%	A	*	.152	.145
767332	SR151A181JAA ♣	NPO	180pF	100	5%	A	*	.18	.177
849303	SR151A221JAA ♣	NPO	220pF	100	5%	A	*	.18	.177
767367	SR151A221KAA ♣	NPO	220pF	100	10%	A	*	.142	.138
767797	SR211A391JAA ♣	NPO	390pF	100	5%	B	*	.193	.189
767412	SR151A471JAA ♣	NPO	470pF	100	5%	A	*	.191	.173
767421	SR151A561JAA ♣	NPO	560pF	100	5%	A	*	.232	.227
767885	SR215A102KAA ♣	NPO	1000pF	50	10%	B	*	.173	.171
849451	SR201A102JAA ♣	NPO	1000pF	100	5%	B	*	.221	.176
767607	SR201A102JAR ♣	NPO	1000pF	100	5%	B	*	.125	.113
849661	SR211A102JAA ♣	NPO	1000pF	100	5%	B	*	.198	.164
768124	SR305A103JAA ♣	NPO	.01μF	50	5%	C	*	.89	.86
768132	SR305A103JAR ♣	NPO	.01μF	50	5%	C	*	.92	.83
768061	SR301A103JAA ♣	NPO	.01μF	100	5%	C	*	.528	.516
768079	SR301A103JAR ♣	NPO	.01μF	100	5%	C	*	.79	.73
768212	SR405A473JAA ♣	NPO	.047μF	50	5%	D	*	3.09	2.93



### X7R Leaded Case

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	10	100
767463	SR151C102KAR ♣	X7R	1000pF	100	10%	A	*	\$ .077	\$ .075
767471	SR151C102MAA ♣	X7R	1000pF	100	20%	A	*	.099	.09
767818	SR211C102KAA ♣	X7R	1000pF	100	10%	2	*	.105	.10
767480	SR151C332KAA ♣	X7R	3300pF	100	10%	A	*	.13	.128
767842	SR211C472KAA ♣	X7R	4700pF	100	10%	B	*	.192	.172
849362	SR155C103KAA ♣	X7R	.01μF	50	10%	A	*	.13	.126
767543	SR155C103KAR ♣	X7R	.01μF	50	10%	A	*	.071	.069
849830	SR215C103KAA ♣	X7R	.01μF	50	10%	B	*	.119	.114
767826	SR211C103KAR ♣	X7R	.01μF	100	10%	B	*	.116	.098
767560	SR155C223KAA ♣	X7R	.022μF	50	10%	A	*	.12	.111
767631	SR201C333KAA ♣	X7R	.033μF	100	10%	B	*	.18	.177
767674	SR205C473KAA ♣	X7R	.047μF	50	10%	B	*	.196	.191
849522	SR205C104KAA ♣	X7R	.1μF	50	10%	B	*	.131	.115
767658	SR205C104KAR ♣	X7R	.1μF	50	10%	B	*	.173	.125
767893	SR215C104KAR ♣	X7R	.1μF	50	10%	B	*	.146	.116
767914	SR215C104MAA ♣	X7R	.1μF	50	20%	B	*	.15	.147
767922	SR215C104MAR ♣	X7R	.1μF	50	20%	B	*	.225	.213
849477	SR201C104KAA ♣	X7R	.1μF	100	10%	B	*	.125	.122
767615	SR201C104KAR ♣	X7R	.1μF	100	10%	B	*	.174	.147
767834	SR211C104KAR ♣	X7R	.1μF	100	10%	B	*	.155	.124
767931	SR215C154KAA ♣	X7R	.15μF	50	10%	B	*	.305	.299
849899	SR215C224KAA ♣	X7R	.22μF	50	10%	B	*	.348	.324
767949	SR215C224KAR ♣	X7R	.22μF	50	10%	B	*	.195	.189
768095	SR301C224KAA ♣	X7R	.22μF	100	10%	C	*	.67	.64
768175	SR305C474KAR ♣	X7R	.47μF	50	10%	C	1.00	.74	.522
850072	SR305C105KAA ♣	X7R	1μF	50	10%	C	.83	.78	.76
768141	SR305C105KAR ♣	X7R	1μF	50	10%	C	.74	.71	.69
768159	SR305C105MAA ♣	X7R	1μF	50	20%	C	1.31	1.29	1.21
850110	SR401C105KAA ♣	X7R	1μF	100	10%	D	1.75	1.68	1.51
768204	SR401C105KAR ♣	X7R	1μF	100	10%	D	1.45	1.41	1.38
768255	SR505C105KAA ♣	X7R	1μF	50	10%	E	5.35	4.68	4.02
768239	SR405C225KAA ♣	X7R	2.2μF	50	10%	D	*	Call	Call

\* Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend
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### Ceramic Leaded X7R (Tape and Reel)

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	Pricing
849338	SR151C103KAATR1 ♣	X7R	.01μF	100	10%	A	★ Call
849725	SR211C103KAATR1 ♣	X7R	.01μF	100	10%	B	★ Call
849506	SR201C104KAATR1 ♣	X7R	.1μF	100	10%	B	★ Call
849750	SR211C104KAATR1 ♣	X7R	.1μF	100	10%	B	★ Call

\* Please call or visit our website for minimum order quantity and pricing.

### Ceramic Leaded Z5U (Bulk)

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	1	10	100
849426	SR155E103MAA ♣	Z5U	.01μF	50	20%	A	*	\$ .154	\$ .137
767578	SR155E103MAR ♣	Z5U	.01μF	50	20%	A	*	.161	.154
767586	SR155E103MAT ♣	Z5U	.01μF	50	20%	A	*	.136	.122
767851	SR211E103MAA ♣	Z5U	.01μF	100	20%	B	*	.171	.147
767594	SR155E473MAA ♣	Z5U	.047μF	50	20%	A	*	.144	.13
767682	SR205E104MAR ♣	Z5U	.1μF	50	20%	B	*	.059	.056
767703	SR205E104MAT ♣	Z5U	.1μF	50	20%	B	*	.051	.046
849910	SR215E104MAA ♣	Z5U	.1μF	50	20%	B	*	.059	.056
767965	SR215E104MAR ♣	Z5U	.1μF	50	20%	B	*	.059	.056
767981	SR215E104MAT ♣	Z5U	.1μF	50	20%	B	*	.051	.046
849961	SR215E104ZAA ♣	Z5U	.1μF	50	+80/-20%	B	*	.131	.118
767640	SR201E104MAA ♣	Z5U	.1μF	100	20%	B	*	.223	.196
849784	SR211E104MAA ♣	Z5U	.1μF	100	20%	B	*	.127	.118
767711	SR205E224MAA ♣	Z5U	.22μF	50	20%	B	*	.236	.196
768001	SR215E224MAA ♣	Z5U	.22μF	50	20%	B	*	.236	.206
767869	SR211E224MAA ♣	Z5U	.22μF	100	20%	B	*	.337	.303
850013	SR215E474MAA ♣	Z5U	.47μF	50	20%	B	*	.231	.216
768010	SR215E474MAR ♣	Z5U	.47μF	50	20%	B	*	.196	.176
850056	SR301E474MAA ♣	Z5U	.47μF	100	20%	C	*	.305	.291
768116	SR301E474MAR ♣	Z5U	.47μF	100	20%	C	*	.245	.22
849995	SR215E105MAA ♣	Z5U	1μF	50	20%	B	*	.281	.267
767990	SR215E105MAR ♣	Z5U	1μF	50	20%	B	*	.281	.267
768183	SR305E105MAR ♣	Z5U	1μF	50	20%	C	*	.272	.259
850030	SR301E105MAA ♣	Z5U	1μF	100	20%	C	*	.421	.363
768108	SR301E105MAR ♣	Z5U	1μF	100	20%	C	*	.421	.40
850136	SR505E475MAA ♣	Z5U	4.7μF	50	20%	E	3.15	2.84	2.56
768263	SR505E475MAR ♣	Z5U	4.7μF	50	20%	E	3.15	2.84	2.56

### Ceramic Leaded Z5U (Tape and Reel)

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	Pricing
767691	SR205E104MARTR1 ♣	Z5U	.1μF	50	20%	B	★ Call Call
767973	SR215E104MARTR1 ♣	Z5U	.1μF	50	20%	B	★ Call Call
849805	SR211E104MAATR1 ♣	Z5U	.1μF	100	20%	B	★ Call Call

\* Please call or visit our website for minimum order quantity and pricing.



## MR & MA Series Ceramic Capacitors

AVX Style	MR07	MR08
Length	12.44mm (0.490")	12.44mm (0.490")
Width	12.44mm (0.490")	12.44mm (0.490")
Thickness	2.55mm (0.140")	6.09mm (0.240")
Lead Spacing	10.16mm (0.400")	10.16mm (0.400")
Lead Diameter	0.635mm (0.025")	0.635mm (0.025")



For more AVX Ceramic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	1	10	100
767287	MR075A104JRR ♣	NPO	.1μF	50	5%	\$14.49	\$13.06	\$11.75
767295	MR085C475MAA ♣	X7R	4.7μF	50	20%	32.79	29.50	26.55

## CDE

### Axial Leaded Multilayer Ceramic Capacitors

#### P10 - P40 Series

• Axial leaded conformally coated • Applications: filtering, bypass, coupling • Encapsulation consists of a moisture and shock resistant coating that meets UL04V-0

#### 50VDC, X7R, ±10%

• Prepackaged: please order in increments of 10

Part No.	Product No.	Value	Dimensions	10	100	500	1000
536526	P10R103K5	.01µF	0.10" Dia. x 0.17"L	\$ .127	\$ .123	\$ .119	\$ .113
536542	P20R104K5	.1µF	0.12" Dia. x 0.17"L	.157	.153	.151	.149

#### 50VDC, Z5U, ±20%

• Prepackaged: please order in increments of 10

Part No.	Product No.	Value	Dimensions	10	100	500	1000
536534	P10U104M5	.1µF	0.10" Dia. x 0.17"L	\$ .10	\$ .096	\$ .091	\$ .086
536551	P40U105M5	1µF	0.15" Dia. x 0.40"L	1.07	.96	.86	.77

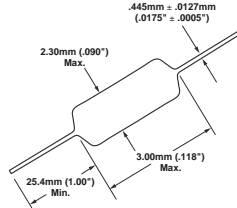
• Blue Part No. = Limited Quantity Available



### Axial Leaded Multilayer Ceramic Capacitors

- Conformally coated axial leaded MLC
- Temperature coefficient: NPO, X7R, Z5U
- Case material: epoxy (flame retardant to UL 92)
- Lead material: solderable

AVX Style	SA10 (A)	SA11 (B)
Length (L)	4.32mm (0.170")	4.32mm (0.170")
Diameter (D)	2.54mm (0.100")	3.05mm (0.120")
Lead Diameter	0.445mm (0.0175")	0.445mm (0.0175")
Lead Length	25.4mm (1.0")	25.4mm (1.0")



For more AVX Ceramic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

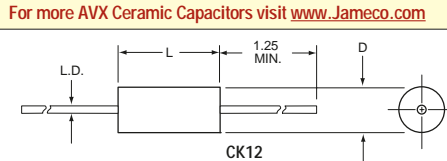
Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	Case	Pricing
848968	SA101A221JAA	NPO	220pF	100	5%	A	★ Call Call
848992	SA101A471JAA	NPO	470pF	100	5%	A	★ Call Call
849047	SA105C103MAA	X7R	.01µF	50	20%	A	★ Call Call
849160	SA115E334MAA	Z5U	.33µF	50	20%	B	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

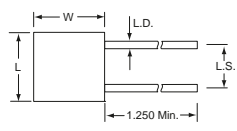


### CK06 & CK12 Series Radial Leaded Ceramic Capacitors

- General purpose
- Molded case
- Tolerance: 10%, 20%
- Operating temp.: -55°C to 125°C
- Meets MIL spec MIL-C-11015



Case Size	PER MIL SPEC
MIL-C-11015	CK06 CK12
Length (L)	7.37mm (0.290") 4.07mm (0.160")
Width (W)	7.37mm (0.290")
Thickness (T)	2.29mm (0.090")
Diameter (D)	2.29mm (0.090")
Lead Spacing (L.S.)	5.08mm (0.200")
Lead Diameter (L.D.)	0.64mm (0.025") 0.48mm (0.019")



\* Prepackaged: please order in increments of 5

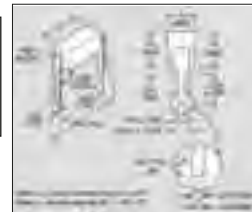
Part No.	Product No.	Temp. Coeff.	Value	Volt.	Tolerance	1	5	100
767121	CK06BX222K	X7R	2200pF	200	10%	* .261	1.99	.235
767148	CK06BX564K	X7R	.56pF	200	10%	* .307	1.78	.248
767130	CK06BX333K	X7R	.033µF	200	10%	* .307	.307	.248
767156	CK12BX100K	X7R	10pF	100	10%	.70	.63	.57



### Molded DIP Lead Ceramic Capacitors

- DIP package
- Tolerances: 10%, 20%
- Operating temp.: X7R: -55°C; Z5U: -10°C to 85°C

Length (L)	6.60mm (0.260")
Height (H1)	3.43mm (0.135")
Height (H2)	4.19mm (0.165")
Thickness	2.54mm (0.098")



For more AVX Ceramic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

## CDE

### Ceramic Disc Capacitors

#### General Purpose Disc

- Ideal for use in non-critical coupling, bypass and filter applications
- Conformally coated • Power factor @ 1kHz: 2.5% max.
- Insulation resistance: 10,000MΩ min. • Lead length: 1" min.
- Lead dia.: 0.025" (except P/N 535638: 0.016") • Radial leads
- Temp. range: -30°C to +85°C
- Breakdown voltage: 2.5 x rated (5 seconds max.)

#### Y5P, 10%

Prepackaged: please order in increments of 10

Part No.	Product No.	Value (pF)	Voltage	Dia. x Thick	Spacing	10	100	1000	5000
535700	GP347	470	1000	0.24" x 0.18"	0.252"	\$ .29	\$ .26	\$ .23	\$ .20
535671	GP222	2200	1000	0.37" x 0.18"	0.252"	.45	.41	.37	.336

• Blue Part No. = Limited Quantity Available

### Panasonic® Ceramic Disc Capacitor

- Operating temp. range: -25°C to 85°C
- Capacitance tolerance: ±20%
- Dissipation factor: 0.025% max. @ 1kHz

For more Panasonic Ceramic Capacitors visit [www.Jameco.com](http://www.Jameco.com)

#### Type TS-A

\* Minimum order 5 pieces

Part No.	Product No.	Capacitance Value	Voltage	Dimensions (mm) Dia. x Th. x L.S.	Pricing
859886	ECK-ATS102ME	1000pF	250	7 x 7 x 7.5	* \$ .257 \$ .209

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• This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

• RoHS compliant product • This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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## Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, Z5U Temperature Coefficient

Quantity SAVE



- Operating temperature range: +10°C to +85°C
- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.
- Cap. change over temp. range: +22% to -56%

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332291	CD3.3/1000	3.3pF	1000	5 x 2.5	\$ .20	\$ .176	\$ .103	\$ .098	\$ .074
15335	DC10	10pF	50	5 x 2.5	*	.07	.05	.02	.015
332196	CD12/50	12pF	50	5 x 2.5	*	.015	.01	.009	.008
332321	CD20/1000	20pF	1000	5 x 2.5	.44	.35	.20	.18	.135
15407	DC22	22pF	50	6 x 2.5	*	.078	.055	.028	.022
332340	CD22/1000	22pF	1000	5 x 2.5	*	.101	.057	.052	.048
332217	CD33/50	33pF	50	5 x 2.5	*	.069	.034	.031	.025
15512	DC47	47pF	50	5 x 2.5	*	.055	.039	.022	.017
15343	DC100	100pF	50	5 x 2.5	*	.056	.039	.028	.022
332371	CD150/1000	150pF	1000	5 x 2.5	.23	.201	.143	.079	.059
15415	DC220	220pF	50	5 x 2.5	*	.05	.035	.025	.015

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332436	CD1000/1000	1000pF	1000	5 x 2.5	\$ .39	\$ .248	\$ .179	\$ .101	\$ .095
332460	CD5000/1000	5000pF	1000	7 x 2.5	.31	.30	.186	.177	.132
15192	DC.001	.001µF	50	6 x 2.5	*	.067	.056	.028	.024
15231	DC.01	.01µF	50	6 x 2.5	*	.067	.045	.033	.023
97377	DC.01/1K20	.01µF	1000	12 x 2.5	*	.20	.133	.093	.073
332487	CD20000/1000	.02µF	1000	16 x 2.5	.60	.57	.33	.26	.185
15247	DC.022	.022µF	50	8 x 2.5	*	.07	.063	.05	.037
15255	DC.047	.047µF	50	8 x 2.5	*	.093	.083	.066	.049
332507	CD50000/1000	.05µF	1000	16 x 2.5	1.35	1.28	.81	.65	.488
151118	DC.1/25	.1µF	25	6 x 2.5	*	.155	.145	.089	.078
15272	DC.1	.1µF	50	8 x 2.5	*	.167	.145	.128	.105
332516	CD100000/1000	.1µF	1000	21 x 2.5	1.99	1.83	1.07	.85	.81

### Other Manufacturers — Great Deals\*

15333	DC10	10pF	50	5	*	\$ .063	\$ .054	\$ .043	\$ .032
15405	DC22	22pF	50	6	*	.076	.054	.027	.021
15341	DC100	100pF	50	5	*	.05	.035	.025	.02
15413	DC220	220pF	50	5	*	.046	.033	.023	.017
15528	DC470	470pF	50	5	*	.08	.065	.025	.022
15190	DC.001	.001µF	50	6	*	.06	.054	.043	.032
97341	DC.0022/1K20	.0022µF	1000	11	.27	.242	.166	.097	.072

\* Capacitor dimensions and styles may vary

15211	DC.0047	.0047µF	50	6	*	\$ .045	\$ .032	\$ .027	\$ .02
15229	DC.01	.01µF	50	6	*	.06	.04	.03	.02
97375	DC.01/1K20	.01µF	1000	12	.20	.146	.139	.111	.083
15245	DC.022	.022µF	50	8	*	.063	.045	.036	.027
15253	DC.047	.047µF	50	8	*	.084	.076	.06	.045
151116	DC.1/25	.1µF	25	6	*	.15	.135	.115	.086
15270	DC.1	.1µF	50	8	*	.153	.133	.117	.097

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## Monolithic Ceramic Capacitors (±20%) (Z5U Series)

Quantity SAVE

\* Prepackaged: please order in increments of 10

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
81543	MD10	10pF	50	3.5x2.0x3.0x2.5	*	\$ .10	\$ .065	\$ .045	\$ .035
81535	MD22	22pF	50	4.0x2.0x4.0x2.5	*	.105	.081	.05	.045
332559	MOC33/100	33pF	100	4.2x3.0x4.2x2.5	.25	.167	.122	.08	.076
332567	MOC47/100	47pF	100	4.2x3.0x4.2x2.5	.20	.118	.086	.06	.057
81519	MD.001	.001µF	50	4.5x2.0x3.0x2.5	.20	.10	.078	.075	.068
25509	MD.01	.01µF	50	3.5x2.0x3.0x2.5	*	.09	.06	.045	.041
57623	MD.047	.047µF	50	2.5x2.5x3.0x2.5	*	.08	.07	.05	.039
544868	SR151C472KAA	.1µF	50	3.8x2.5x4.0x2.5	*	.094	.06	.034	.032

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
25525	MD.1	.1µF	50	3.4x2.2x3.6x2.5	*	\$ .078	\$ .067	\$ .044	\$ .039
25541	MD.22	.22µF	50	6.0x2.0x4.5x2.5	.21	.189	.133	.089	.066
544930	SR215E334MAA	.33µF	50	3.8x2.5x3.8x5.1	.20	.174	.111	.087	.081
138239	MD.33	.33µF	50	6.0x2.0x8.0x2.5	*	.178	.155	.122	.078
25560	MD.47	.47µF	50	4.5x2.5x4.5x2.5	.43	.39	.28	.21	.145
544956	SR305E105MAA	1µF	50	3.8x2.5x3.8x5.1	.20	.19	.149	.141	.131
81510	MD1	1µF	50	6.0x3.0x7.0x2.5	.53	.48	.355	.255	.233

### Other Manufacturers — Great Deals\*

81533	MD22	22pF	50	4.0x2.0x4.0	*	\$ .066	\$ .044	\$ .033	\$ .025
81517	MD.001	.001µF	50	4.5x2.0x3.0	*	.055	.041	.029	.026
25507	MD.01	.01µF	50	3.5x2.0x3.0	*	.10	.067	.05	.045
57621	MD.047	.047µF	50	2.5x2.5x3.0	*	.072	.063	.045	.034

\* Capacitor dimensions and style may vary

25523	MD.1	.1µF	50	6.0x2.0x4.0	*	\$ .07	\$ .06	\$ .04	\$ .035
25540	MD.22	.22µF	50	6.0x2.0x4.5	.20	.183	.166	.111	.10
138237	MD.33	.33µF	50	6.0x2.0x8.0	*	.16	.141	.113	.084
25558	MD.47	.47µF	50	4.5x2.5x4.5	*	.128	.109	.087	.065
81509	MD1	1µF	50	6.0x3.0x7.0	.30	.23	.161	.149	.112

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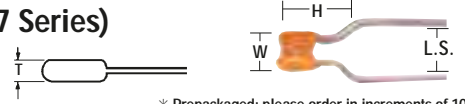
Lower \$\$\$

## Monolithic Ceramic Capacitors (±10%) (XR7 Series)

Applications: • Data processing  
 Operating temp. range: -10°C to +85°C

• Communications engineering

\* Prepackaged: please order in increments of 10



\* Prepackaged: please order in increments of 10

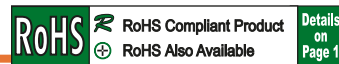
Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing				
					1	10	100	1000	5000
332583	MOC100/100	100pF	100	5.0x5.0x3.0x2.5	*	\$ .14	\$ .12	\$ .081	\$ .061
332592	MOC220/100	220pF	100	5.0x5.0x3.0x2.5	.27	.188	.134	.074	.07
332612	MOC470/100	470pF	100	5.0x5.0x3.0x2.5	*	.121	.088	.08	.076
544825	SR151C102KAA	1000pF	100	3.8x2.5x3.8x5.1	*	.087	.069	.043	.041
597281	SR211C103KAA	.01µF	100	3.8x2.5x3.8x5.1	*	.118	.098	.046	.044
544833	SR151C103KAA	.01µF	100	3.8x2.5x3.8x5.1	*	.103	.088	.054	.053
332647	MOC10000/100	.01µF	100	5.0x5.0x3.0x2.5	*	.125	.09	.063	.06

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing				
					1	10	100	1000	5000
544892	SR211C223KAA	.022µF	100	3.8x2.5x3.8x5.1	*	\$ .111	\$ .10	\$ .08	\$ .06
332655	MOC22000/100	.022µF	100	5.0x5.0x3.0x2.5	.20	.111	.08	.056	.053
544905	SR211C333KAA	.033µF	100	3.8x2.5x3.8x5.1	*	.142	.13	.105	.097
544913	SR211C473KAA	.047µF	100	3.8x2.5x3.8x5.1	*	.142	.139	.11	.107
544921	SR215C104KAA	.1µF	50	3.8x2.5x3.8x5.1	*	.111	.088	.057	.054
544884	SR211C104KAA	.1µF	100	3.8x2.5x3.8x5.1	*	.127	.09	.068	.061
332672	MOC100000/100	.1µF	100	5.0x5.0x3.0x2.5	*	.132	.096	.067	.064
544948	SR305C474KAA	.47µF	50	3.8x2.5x3.8x5.1	.46	.396	.24	.232	.224

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price?  
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# Ceramic & Tantalum Capacitors



Color Code Legend			
New	Sale	Lower\$	QtySave

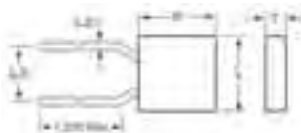


## Ceramic Molded Radial Capacitors

NEW



CK05 Series



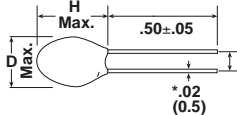
\* Minimum order 5 pieces

Part No.	Product No.	Value	Voltage	Size (mm) L x W x H x L.S.	Pricing	
					1	5
1776142	CK05BX220K	22pF	200V	4.83 x 4.83 x 2.29 x 5.08	*	\$.253
1776177	CK05BX330K	33pF	200V	4.83 x 4.83 x 2.29 x 5.08	*	\$.206
1776097	CK05BX101K	100pF	200V	4.83 x 4.83 x 2.29 x 5.08	*	\$.206
1776151	CK05BX221K	220pF	200V	4.83 x 4.83 x 2.29 x 5.08	*	\$.206
1640325	CK05BX102K TR	1000pF	200V	4.83 x 4.83 x 2.29 x 5.08	*	\$.194
1776118	CK05BX102K	1000pF	200V	4.83 x 4.83 x 2.29 x 5.08	*	\$.23
1776169	CK05BX222K	2200pF	100V	4.83 x 4.83 x 2.29 x 5.08	*	\$.206
1776126	CK05BX103K	0.01μF	100V	4.83 x 4.83 x 2.29 x 5.08	*	\$.196
1776134	CK06BX104K	0.1μF	100V	7.37 x 7.37 x 2.29 x 5.08	*	\$.245
1776185	CK05BX104K	1μF	50V	4.83 x 4.83 x 2.29 x 5.08	*	\$.265

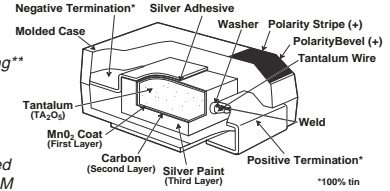


## Tantalum Capacitors

NEW



T350 Series



T491 Series

\* All Lead Diameters = .02 ± .002 (0.5 ± .05 mm)  
\*\* On T350 Series, case sizes A-H are supplied with .100" (2.54) lead spacing; case sizes J-M are supplied with .200" (5.08) lead spacing.

### Tantalum Dipped Radial (±10%)

\* Minimum order 10 pieces

Part No.	Product No.	Value	Voltage	Size (mm) D x H x L.S.	Pricing		
					1	10	100
1572342	T350E106K025AS	10pF	25	5.5 x 8.9 x 0.1	*	\$.413	\$.387

### Tantalum Chip Capacitors (±10%)

Part No.	Product No.	Value	Voltage	Size (mm) D x H x L.S.	Pricing		
					1	10	100
1573185	T491A105K025AT	1pF	25V	3.2 x 1.6 x 1.6	*	\$.069	\$.065
1573804	T491C106K025AT	10pF	25V	6.0 x 3.2 x 2.5	*	\$.154	\$.144
1574348	T491D226K025AT	22pF	25V	7.3 x 4.3 x 2.8	.50	.47	.44

# SMT Electrolytic Capacitors

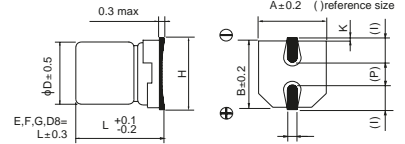


## Surface Mount Aluminum Electrolytic Capacitors

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Size Code	Dimensions (mm)					
	Dia.	Ht	W	L	Pad Width	Pad Spacing
A	3	5.4	3.3	1.5	0.55	0.6
B	4	5.4	4.3	1.8	0.65	1
C	5	5.4	5.3	2.2	0.65	1.5
D	6.3	5.4	6.6	2.6	0.65	1.8
D2	6.3	5.7	6.6	2.6	0.65	1.8

Size Code	Dimensions (mm)					
	Dia.	Ht	W	L	Pad Width	Pad Spacing
E	8	6.2	8.3	3.4	0.65	2.2
F	8	10.2	8.3	3.4	0.9	3.1
G	10	10.2	10.3	3.5	0.9	4.6
H13	12.5	13.5	13.5	4.7	0.9	4.4
H16	12.5	16.5	13.5	4.7	0.9	4.4



### VS Series

- Lifetime: 2,000 hours @ 85°C
- Capacitance tolerance: ±20%
- Operating temperature range: -40°C to 85°C
- High CV volumetric efficiency
- General purpose

Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
857451	ECE-V1HA010SR	B	50	1μF	★	Call	Call
857602	ECE-V1HS010SR	A	50	1μF	★	Call	Call
857821	ECE-V1VA47SR	B	35	4.7μF	★	Call	Call
919148	ECE-V1CA100SR	B	16	10μF	★	Call	Call
857338	ECE-V1EA100SR	C	25	10μF	★	Call	Call
919332	ECE-V1HA100SP	D	50	10μF	★	Call	Call
857186	ECE-V1CA220SR	C	16	22μF	★	Call	Call
919236	ECE-V1CA470SP	D	16	47μF	★	Call	Call
857397	ECE-V1EA470UP	D2	25	47μF	★	Call	Call
857098	ECE-V0JA101SP	D	6.3	100μF	★	Call	Call
919201	ECE-V1CA101WP	D	16	100μF	★	Call	Call
857725	ECE-V1VA101P	G	35	100μF	★	Call	Call
919367	ECE-V1HA101UP	F	50	100μF	★	Call	Call
919295	ECE-V1EA221UP	F	25	220μF	★	Call	Call
919391	ECE-V1VA221UP	F	35	220μF	★	Call	Call
857514	ECE-V1HA221P	G	50	220μF	★	Call	Call
857266	ECE-V1CA471P	G	16	470μF	★	Call	Call
857426	ECE-V1EA471P	G	25	470μF	★	Call	Call
857127	ECE-V0JA102P	G	6.3	1000μF	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### EEV-EB Series

- Long life: 3,000 to 5,000 hours @ 105°C
- Tolerance: ±20%
- High CV volumetric efficiency
- Operating temp. range: -25°C to 105°C
- High voltage
- General purpose

Size Code	Dimensions (mm)					
	D	L	A	I	W	P
G13	10	13.5	10.3	3.5	0.9	4.6
H16	12.5	16.5	13.5	4.7	0.9	4.4

Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
861337	EEV-EB2G3R30	G13	400	3.3μF	★	Call	Call
861302	EEV-EB2D220SQ	H16	200	22μF	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

### FK Series

- Long life: 2,000 to 5,000 hours @ 105°C
- Capacitance tolerance: ±20%
- 30% to 50% smaller than FC Series
- High CV volumetric efficiency
- Low impedance
- Operating temp. range: -55° to 105°C

Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
861484	EEV-FK1J47R7	C	63	4.7μF	★	Call	Call
860983	EEE-FK1J47R7	C	63	4.7μF	★	Call	Call
861425	EEV-FK1C100R	B	16	10μF	★	Call	Call
861011	EEE-FK1V100R	C	35	10μF	★	Call	Call
920747	EEV-FK1V100R	C	35	10μF	★	Call	Call
860924	EEE-FK0J470R	C	6.3	47μF	★	Call	Call
861513	EEV-FK1V470P	D	35	47μF	★	Call	Call
920798	EEV-FK2A470Q	H13	100	47μF	★	Call	Call
861396	EEV-FK0J101UR	C	6.3	100μF	★	Call	Call
860895	EEE-FK0J101UR	C	6.3	100μF	★	Call	Call
920712	EEV-FK1C101P	D	16	100μF	★	Call	Call
920771	EEV-FK1V471Q	H13	35	470μF	★	Call	Call
861548	EEV-FK1V681Q	H13	35	680μF	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### HA Series

- Lifetime: 1,000 hours @ 105°C
- Capacitance tolerance: ±20%
- Operating temp. range: -40°C to 105°C
- General purpose
- High CV volumetric efficiency

Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
861601	EEV-HA1H100P	C	35	10μF	★	Call	Call
861628	EEV-HB1V100R	D	50	10μF	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### VS Bi-Polar

- Lifetime: 1,000 hours @ 85°C
- Capacitance tolerance: ±20%
- Operating temperature range: -40°C to 85°C
- High CV volumetric efficiency
- General purpose Bi-Polar

Part No.	Product No.	Size Code	Voltage (V)	Capacitance Value	Pricing		
					★	Call	Call
857661	ECE-V1VA100NP	D	35	10μF	★	Call	Call

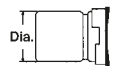
★ Please call or visit our website for minimum order quantity and pricing.



## Surface Mount Aluminum Electrolytic Capacitors

Operating Temperature Range: -55°C to +105°C

Quantity SAVE






Side View






Bottom View

Leakage current (20°C) after 2 minutes ≤ .01CV or 3µA

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610263	UWT1C100MCL1GB 	10	16	4.0	*	\$ .116	\$ .108	\$ .098
608577	UUD1E220MCL1GS 	22	25	22.0	.32	.288	.23	.173
608585	UUD1E330MCL1GS 	33	25	6.3	.52	.468	.374	.281

† Cross Reference: Panasonic: VS Series

Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
608796	UUD1V680MCL1GS 	68	35	6.3	.34	.306	.245	.184
608462	UUD1A101MCL1GS 	100	10	—	.52	.468	.374	.281
608569	UUD1E101MCL1GS 	100	25	6.3	.37	.333	.266	.20
608737	UUD1V101MML1GS 	100	35	8.0	.53	.477	.382	.287
608471	UUD1A102MML1GS 	1000	10	10.0	.75	.68	.61	.303



## Ceramic Chip Capacitors





Dimensions mm (in.)			
EIA Size Code	Metric Size Code	L = Length	W = width
0402	1005	1 (0.04)	0.5 (0.02)
0603	1608	1.6 (0.063)	0.8 (0.032)
0805	2012	2.0 (0.079)	1.25 (0.049)
1206	3216	3.2 (0.126)	1.6 (0.063)

NEW



















### Size 0402 COG (NPO)

















• Minimum order 100 pieces

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing	
					100	500
1564422	C0402C220J5GAC TU 	22pF	5%	50V	\$ .014	\$ .008
1564511	C0402C330J5GAC TU 	33pF	5%	50V	.014	.008
1564570	C0402C470J5GAC TU 	47pF	5%	50V	.014	.008
1564140	C0402C101J5GAC TU 	100pF	5%	50V	.014	.008



### Size 0603 COG (NPO)

1564713	C0603C100J5GAC TU 	10pF	5%	50V	\$ .161	\$ .009
1565222	C0603C150J5GAC TU 	15pF	5%	50V	.021	.012
1565329	C0603C180J5GAC TU 	18pF	5%	50V	.021	.012
1565396	C0603C220J5GAC TU 	22pF	5%	50V	.021	.012
1565601	C0603C270J5GAC TU 	27pF	5%	50V	.021	.012
1565687	C0603C330J5GAC TU 	33pF	5%	50V	.019	.011
1565767	C0603C390J5GAC TU 	39pF	5%	50V	.021	.012
1565847	C0603C470J5GAC TU 	47pF	5%	50V	.022	.012
1566049	C0603C680J5GAC TU 	68pF	5%	50V	.021	.012
1564748	C0603C101J5GAC TU 	100pF	5%	50V	.015	.008
1564756	C0603C101K5GAC TU 	100pF	10%	50V	.015	.008
1565249	C0603C151J5GAC TU 	150pF	5%	50V	.025	.014
1565417	C0603C221J5GAC TU 	220pF	5%	50V	.027	.015
1565610	C0603C271J5GAC TU 	270pF	5%	50V	.027	.015
1565863	C0603C471J5GAC TU 	470pF	5%	50V	.027	.015
1564772	C0603C102J5GAC TU 	1000pF	5%	50V	.013	.012

### Size 0603 X7R

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing	
					100	500
1565880	C0603C471K5RAC TU 	470pF	10%	50V	\$ .038	\$ .021
1564781	C0603C102J5RAC TU 	1000pF	5%	50V	.019	.011
1564844	C0603C102K5RAC TU 	1000pF	10%	50V	.012	.007
1565484	C0603C222K5RAC TU 	2200pF	10%	50V	.015	.009
1565716	C0603C332K5RAC TU 	3300pF	10%	50V	.023	.013
1566065	C0603C682K5RAC TU 	6800pF	10%	50V	.026	.023
1564879	C0603C103K3RAC TU 	10,000pF	10%	25V	.018	.01
1564861	C0603C103J5RAC TU 	10,000pF	5%	50V	.018	.01
1564908	C0603C103K5RAC TU 	10,000pF	10%	50V	.005	.004
1564932	C0603C103M5RAC TU 	10,000pF	20%	50V	.018	.01
1565505	C0603C223K5RAC TU 	22,000pF	10%	50V	.018	.01
1565935	C0603C473K4RAC TU 	47,000pF	10%	16V	.068	.039
1565011	C0603C104K8RAC TU 	100,000pF	10%	10V	.012	.007
1565054	C0603C104M4RAC TU 	100,000pF	20%	16V	.012	.007
1564991	C0603C104K4RAC TU 	100,000pF	10%	16V	.012	.009
1564975	C0603C104K3RAC TU 	100,000pF	10%	25V	.068	.039

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.


 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend			
New	Sale	Lower\$	QtySave





Order 24/7 Toll Free 1-800-831-4242

### Size 0402 X5R








• Minimum order 100 pieces

Part No.	Product No.	Value	Capacitance Tolerance	Voltage	Pricing	
					100	500
1564289	C0402C104K8PAC TU 	100,000pF	10%	10V	\$ .014	\$ .008















### Size 0402 X7R

1564182	C0402C102K5RAC TU 	1000pF	10%	50V	\$ .011	\$ .006
1564246	C0402C103K4RAC TU 	10,000pF	10%	16V	.011	.006
1564238	C0402C103K3RAC TU 	10,000pF	10%	25V	.011	.006
1564254	C0402C103K5RAC TU 	10,000pF	10%	50V	.014	.008

### Size 0805 COG (NPO)

1566170	C0805C100J5GAC TU 	10pF	5%	50V	\$ .035	\$ .02
1566858	C0805C220J5GAC TU 	22pF	5%	50V	.057	.032
1567156	C0805C330J5GAC TU 	33pF	5%	50V	.032	.018
1567412	C0805C470J5GAC TU 	47pF	5%	50V	.032	.018
1566209	C0805C101J5GAC TU 	100pF	5%	50V	.057	.032
1566225	C0805C101K5GAC TU 	100pF	10%	50V	.029	.016
1567172	C0805C331J5GAC TU 	330pF	5%	50V	.032	.018


### Size 0805 X7R

1566321	C0805C102K5RAC TU 	1000pF	10%	50V	\$ .019	\$ .011
1566284	C0805C102K1RAC TU 	1000pF	10%	100V	.061	.035
1566997	C0805C222K5RAC TU 	2200pF	10%	50V	.022	.012
1567527	C0805C472K5RAC TU 	4700pF	10%	50V	.025	.014
1566348	C0805C103J5RAC TU 	10,000pF	5%	50V	.029	.016
1566372	C0805C103K5RAC TU 	10,000pF	10%	50V	.019	.011
1566399	C0805C103M5RAC TU 	10,000pF	20%	50V	.019	.011
1566356	C0805C103K1RAC TU 	10,000pF	10%	100V	.025	.014
1567017	C0805C223K5RAC TU 	22,000pF	10%	50V	.034	.019
1567543	C0805C473K5RAC TU 	47,000pF	10%	50V	.035	.02
1566436	C0805C104K3RAC TU 	100,000pF	10%	25V	.026	.015
1566479	C0805C104K5RAC TU 	100,000pF	10%	50V	.026	.014
1566495	C0805C104M5RAC TU 	100,000pF	20%	50V	.026	.014
1566559	C0805C105K4RAC TU 	1,000,000pF	10%	16V	.055	.032

### Size 1206 X7R

1568061	C1206C104K1RAC TU 	100,000pF	10%	100V	\$ .138	\$ .079
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### Size 0603 Y5V

1565071	C0603C104Z3VAC TU 	100,000pF	+80%, -20%	25V	\$ .011	\$ .006
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### Size 0805 Y5V

1566612	C0805C105Z4VAC TU 	1,000,000pF	+80%, -20%	16V	\$ .055	\$ .032
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### Size 0805 Z5U

1566508	C0805C104M5UAC TU 	100,000pF	20%	50V	\$ .034	\$ .019
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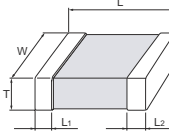
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













Size	L(mm)	W(mm)	L1/L2(mm)
0402	1	0.5	0.15
0603	1.6	0.8	0.3
0805	2	1.25	0.5
1206	3.2	1.6	0.6

Temp. Coeff.	Range
NPO	-55°C to +125°C
X5R	-55°C to +85°C
X7R	-55°C to +125°C
F / Y5V	-30°C to +85°C
























### Size 0402

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
858306	ECJ-0EC1H100D 	NPO	10pF	50	±5pF	★	Call/Web
858365	ECJ-0EC1H120J 	NPO	12pF	50	±5%	★	Call/Web
858390	ECJ-0EC1H220J 	NPO	22pF	50	±5%	★	Call/Web
858429	ECJ-0EC1H470J 	NPO	47pF	50	±5%	★	Call/Web
858453	ECJ-0EC1H680J 	NPO	68pF	50	±5%	★	Call/Web
858331	ECJ-0EC1H101J 	NPO	100pF	50	±5%	★	Call/Web
858189	ECJ-0EB1H101K 	X7R	100pF	50	±10%	★	Call/Web
858218	ECJ-0EB1H102K 	X7R	1000pF	50	±10%	★	Call/Web
919543	ECJ-0EB1E103K 	X7R	.01µF	25	±10%	★	Call/Web
858154	ECJ-0EB1C223K 	X7R	22,000pF	16	±10%	★	Call/Web
919519	ECJ-0EB1A104K 	X5R	.1µF	10	±10%	★	Call/Web
858488	ECJ-0EF1C104Z 	Y5V	.1µF	16	+80%/-20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.





















### Size 0603

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
858939	ECJ-1VC1H040C 	NPO	4pF	50	±0.25pF	★	Call/Web
858963	ECJ-1VC1H060D 	NPO	6pF	50	±0.5pF	★	Call/Web
859077	ECJ-1VC1H180J 	NPO	18pF	50	±5%	★	Call/Web
859131	ECJ-1VC1H270J 	NPO	27pF	50	±5%	★	Call/Web
859181	ECJ-1VC1H330J 	NPO	33pF	50	±5%	★	Call/Web
859261	ECJ-1VC1H560J 	NPO	56pF	50	±5%	★	Call/Web
919981	ECJ-1VC1H680J 	NPO	68pF	50	±5%	★	Call/Web
919922	ECJ-1VC1H101J 	NPO	100pF	50	±5%	★	Call/Web
859042	ECJ-1VC1H151J 	NPO	150pF	50	±5%	★	Call/Web
859106	ECJ-1VC1H221J 	NPO	220pF	50	±5%	★	Call/Web
859165	ECJ-1VC1H271J 	NPO	270pF	50	±5%	★	Call/Web
859202	ECJ-1VC1H331J 	NPO	330pF	50	±5%	★	Call/Web
859341	ECJ-1VC1H821J 	NPO	820pF	50	±5%	★	Call/Web
919957	ECJ-1VC1H102J 	NPO	1000pF	50	±5%	★	Call/Web
858867	ECJ-1VB2D102K 	X7R	1000pF	200	±10%	★	Call/Web
919754	ECJ-1VB1H102K 	X7R	1000pF	50	±10%	★	Call/Web
919851	ECJ-1VB1H222K 	X7R	2200pF	50	±10%	★	Call/Web
858744	ECJ-1VB1H272K 	X7R	2700pF	50	±10%	★	Call/Web
858779	ECJ-1VB1H332K 	X7R	3300pF	50	±10%	★	Call/Web
858808	ECJ-1VB1H392K 	X7R	3900pF	50	±10%	★	Call/Web
858832	ECJ-1VB1H472K 	X7R	4700pF	50	±10%	★	Call/Web
919789	ECJ-1VB1H103K 	X7R	10,000pF	50	±10%	★	Call/Web
858710	ECJ-1VB1H153K 	X7R	15,000pF	50	±10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.















### Size 0603 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
919893	ECJ-1VB1H333K 	X7R	.033µF	50	±10%	★	Call/Web
919818	ECJ-1VB1H104K 	X7R	.1µF	50	±10%	★	Call/Web
919720	ECJ-1VB1E103K 	X7R	10,000pF	25	±10%	★	Call/Web
858681	ECJ-1VB1E473K 	X7R	47,000pF	25	±10%	★	Call/Web
858656	ECJ-1VB1E104K 	X7R	.1µF	25	±10%	★	Call/Web
858592	ECJ-1VB1C103K 	X7R	10,000pF	16	±10%	★	Call/Web
919666	ECJ-1VB1C104K 	X7R	.1µF	16	±10%	★	Call/Web
919691	ECJ-1VB1C105K 	X5R	.1µF	16	±10%	★	Call/Web
858576	ECJ-1VB1A224K 	X5R	.33µF	10	±10%	★	Call/Web
858517	ECJ-1VB0J474K 	X5R	.47µF	6.3	±10%	★	Call/Web
858541	ECJ-1VB0J684K 	X5R	.68µF	6.3	±10%	★	Call/Web
919578	ECJ-1VB0J105K 	X5R	.1µF	6.3	±10%	★	Call/Web
919607	ECJ-1VB0J225K 	X5R	2.2µF	6.3	±10%	★	Call/Web
919631	ECJ-1VB0J475M 	X5R	4.7µF	6.3	±20%	★	Call/Web
859456	ECJ-1VF1H103Z 	Y5V	10,000pF	50	+80%/-20%	★	Call/Web
920077	ECJ-1VF1H104Z 	Y5V	.1µF	50	+80%/-20%	★	Call/Web
920042	ECJ-1VF1E104Z 	Y5V	.1µF	25	+80%/-20%	★	Call/Web
859392	ECJ-1VF1C224Z 	Y5V	.22µF	16	+80%/-20%	★	Call/Web
859421	ECJ-1VF1C474Z 	Y5V	.47µF	16	+80%/-20%	★	Call/Web
920018	ECJ-1VF1A105Z 	Y5V	.1µF	10	+80%/-20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

### Size 0805

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
859739	ECJ-2VC1H470J 	NPO	47pF	50	±5%	★	Call/Web
920270	ECJ-2VC1H101J 	NPO	100pF	50	±5%	★	Call/Web
859704	ECJ-2VC1H271J 	NPO	270pF	50	±5%	★	Call/Web
920237	ECJ-2VB1H103K 	X7R	10,000pF	50	±10%	★	Call/Web
859510	ECJ-2VB1H223K 	X7R	22,000pF	50	±10%	★	Call/Web
920341	ECJ-2VB1H104K 	X7R	.1µF	50	±10%	★	Call/Web
920202	ECJ-2VB1E104K 	X7R	.1µF	25	±10%	★	Call/Web
920173	ECJ-2VB1C104K 	X7R	.1µF	16	±10%	★	Call/Web
859499	ECJ-2VB1C224K 	X7R	.22µF	16	±10%	★	Call/Web
859827	ECJ-2VF1H104Z 	Y5V	.1µF	50	+80%/-20%	★	Call/Web
920317	ECJ-2VF1H224Z 	Y5V	.22µF	50	+80%/-20%	★	Call/Web
859798	ECJ-2VF1E104Z 	Y5V	.1µF	25	+80%/-20%	★	Call/Web
920376	ECJ-2YF1C225Z 	Y5V	2.2µF	16	+80%/-20%	★	Call/Web
920157	ECJ-2FF1A106Z 	F	10µF	10	+80%/-20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.



## PPS Film, High Grade Type SMT Capacitors

- Operating temperature range: -55°C to 125°C
- High moisture resistance
- Capacitance tolerance: 2%, 5%
- Small size
- Dissipation factor: ≤ 0.6% @ 1kHz


For more Panasonic Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)





Size Code	Dim. (mm)	
	D	L
0805 (2012)	2	1.25
1206 (3216)	3.2	1.6
1210 (3225)	3.2	2.5
1913 (4833)	4.8	3.3
2416 (6041)	6	4.1
2820 (7150)	7.1	5

### ECH-U (C) Series (2% tolerance)

\* Prepackaged: please order in increments of 10




Part No.	Product No.	Voltage	Capacitance Value	Size Code	Height (mm)	Pricing		
858031	ECH-U1H104GC9 	50	.1µF	1913	2.8	\$.50	\$.449	\$.404

### ECH-U (C) Series (5% tolerance)

919455	ECH-U1H104JC9 	50	.1µF	1913	2.8	*	\$.423	\$.381
858066	ECH-U1H224JC9 	50	.22µF	2416	3.2	.87	.78	.70

### ECH-U (X) Series (5% tolerance)



\* Prepackaged: please order in increments of 5

Part No.	Product No.	Voltage	Capacitance Value	Size Code	Height (mm)	Pricing		
858007	ECH-U1H103JX5 	50	0.01µF	1206	1.1	*	\$.254	\$.229
857979	ECH-U1C683JX5 	16	0.068µF	1210	1.5	*	.316	.284
919421	ECH-U1C104JX5 	16	0.1µF	1210	2.1	*	.378	.34

[www.Jameco.com](http://www.Jameco.com)

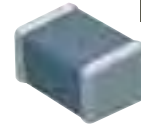
For more SMT Capacitors, visit our website today!

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Multilayer Ceramic Chip Capacitors

For more AVX Ceramic Capacitors visit [www.jameco.com](http://www.jameco.com)























Size	0402 Case Size	0603 Case Size	0805 Case Size
Length (L)	1.0mm ±0.10mm (0.40" ±0.004")	1.60 ±0.15 (0.063" ±0.006")	2.01mm ±0.20mm (0.79" ±0.008")
Width (W)	0.50mm ±0.10mm (0.020" ±0.004")	0.81mm ±0.15mm (0.032" ±0.006")	1.25mm ±0.20mm (0.049" ±0.008")
Thickness (T)	0.50mm ±0.05mm (0.20" ±0.006")	0.80mm ±0.10mm (0.030" ±0.006")	1.25mm ±0.20mm (0.020" ±0.010")
Size	1206 Case Size	1210 Case Size	1812 Case Size
Length (L)	3.2mm ±0.20mm (0.126" ±0.008")	3.2mm ±0.20mm (0.126" ±0.008")	4.5mm ±0.30mm (0.177" ±0.012")
Width (W)	1.60mm ±0.20mm (0.063" ±0.008")	2.5mm ±0.20mm (0.098" ±0.008")	3.2mm ±0.20mm (0.126" ±0.008")
Thickness (T)	0.50mm ±0.25mm (0.020" ±0.10")	Refer to Datasheet	Refer to Datasheet

Temperature Coefficient :	COG (NP0) = -55°C to +125°C X5R = -55°C to +85°C X7R = -55°C to +125°C Y5V = -30°C to +85°C Z5U = +10°C to +85°C
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

























### Size 0402

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
765661	04025A4R7CAT2A 	NP0	4.7pF	50	0.25pF	★	Call/Web
765679	04025A6R8CAT2A 	NP0	6.8pF	50	0.25pF	★	Call/Web
734821	04025A100JAT2A 	NP0	10pF	50	5%	★	Call/Web
765628	04025A150JAT2A 	NP0	15pF	50	5%	★	Call/Web
765636	04025A180JAT2A 	NP0	18pF	50	5%	★	Call/Web
765644	04025A220JAT2A 	NP0	22pF	50	5%	★	Call/Web
734848	04025A270JAT2A 	NP0	27pF	50	5%	★	Call/Web
765652	04025A330JAT2A 	NP0	33pF	50	5%	★	Call/Web
734856	04025A470JAT2A 	NP0	47pF	50	5%	★	Call/Web
734864	04025A680JAT2A 	NP0	68pF	50	5%	★	Call/Web
765610	04025A101KAT2A 	NP0	100pF	50	10%	★	Call/Web
734830	04025A151JAT2A 	NP0	150pF	25	5%	★	Call/Web
734813	04023A221JAT2A 	NP0	220pF	25	5%	★	Call/Web
734901	0402YD473KAT2A 	X5R	0.047µF	16	10%	★	Call/Web
734910	0402ZD104KAT2A 	X5R	0.1µF	10	10%	★	Call/Web
734881	0402YC102KAT2A 	X7R	1000pF	16	10%	★	Call/Web
734872	04025C102JAT2A 	X7R	1000pF	50	5%	★	Call/Web
765687	04025C152KAT2A 	X7R	1500pF	50	10%	★	Call/Web
765695	04025C332KAT2A 	X7R	3300pF	50	10%	★	Call/Web
734899	0402YC223KAT2A 	X7R	0.022µF	16	10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

### Size 0603






















































Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
766031	06035A0R5CAT2A 	NP0	0.5pF	50	0.25pF	★	Call/Web
735111	06035A1R0CAT2A 	NP0	1pF	50	0.25pF	★	Call/Web
735120	06035A1R8CAT2A 	NP0	1.8pF	50	0.25pF	★	Call/Web
735171	06035A2R2CAT2A 	NP0	2.2pF	50	0.25pF	★	Call/Web
766129	06035A2R7CAT2A 	NP0	2.7pF	50	0.25pF	★	Call/Web
765775	06031A2R7CAT2A 	NP0	2.7pF	100	0.25pF	★	Call/Web
735189	06035A3R3CAT2A 	NP0	3.3pF	50	0.25pF	★	Call/Web
765804	06031A3R3CAT2A 	NP0	3.3pF	100	0.25pF	★	Call/Web
735197	06035A3R9CAT2A 	NP0	3.9pF	50	0.25pF	★	Call/Web
766153	06035A4R0CAT2A 	NP0	4pF	50	0.25pF	★	Call/Web
735234	06035A4R7CAT2A 	NP0	4.7pF	50	0.25pF	★	Call/Web
735251	06035A5R6CAT2A 	NP0	5.6pF	50	0.25pF	★	Call/Web
766188	06035A5R6DAT2A 	NP0	5.6pF	50	0.5pF	★	Call/Web
766196	06035A6R0CAT2A 	NP0	6pF	50	0.25pF	★	Call/Web
766209	06035A6R0DAT2A 	NP0	6pF	50	0.5pF	★	Call/Web
735277	06035A6R8CAT2A 	NP0	6.8pF	50	0.25pF	★	Call/Web
765821	06031A6R8DAT2A 	NP0	6.8pF	100	0.5pF	★	Call/Web
765839	06031A8R0CAT2A 	NP0	8pF	100	0.25pF	★	Call/Web
735285	06035A8R2CAT2A 	NP0	8.2pF	50	0.25pF	★	Call/Web
735040	06035A100CAT2A 	NP0	10pF	50	0.25pF	★	Call/Web
735058	06035A100DAT2A 	NP0	10pF	50	0.5pF	★	Call/Web
735066	06035A100KAT2A 	NP0	10pF	50	10%	★	Call/Web
734928	06031A150JAT2A 	NP0	15pF	100	5%	★	Call/Web
765741	06031A180JAT2A 	NP0	18pF	100	5%	★	Call/Web
735138	06035A200JAT2A 	NP0	20pF	50	5%	★	Call/Web
765935	06033A220JAT2A 	NP0	22pF	25	5%	★	Call/Web
735146	06035A220KAT2A 	NP0	22pF	50	10%	★	Call/Web
765759	06031A220KAT2A 	NP0	22pF	100	10%	★	Call/Web
735154	06035A270FAT2A 	NP0	27pF	50	1%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

### Size 0603 (Continued)

These products are sold on Tape and Reel

		Temp.		Voltage		Pricing	
Part No.	Product No.	Coeff.	Value	(V)	Tolerance		
735162	06035A270JAT2A 	NP0	27pF	50	5%	★	Call/Web
766137	06035A330KAT2A 	NP0	33pF	50	10%	★	Call/Web
765791	06031A390JAT2A 	NP0	39pF	100	5%	★	Call/Web
735200	06035A470KAT2A 	NP0	47pF	50	10%	★	Call/Web
734944	06031A470JAT2A 	NP0	47pF	100	5%	★	Call/Web
735242	06035A560JAT2A 	NP0	56pF	50	5%	★	Call/Web
765812	06031A560JAT2A 	NP0	56pF	100	5%	★	Call/Web
735269	06035A680JAT2A 	NP0	68pF	50	5%	★	Call/Web
766321	0603YA820KAT2A 	NP0	82pF	16	10%	★	Call/Web
734979	06033A101JAT2A 	NP0	100pF	25	5%	★	Call/Web
765919	06033A101KAT2A 	NP0	100pF	25	5%	★	Call/Web
735074	06035A101JAT2A 	NP0	100pF	50	5%	★	Call/Web
735082	06035A101KAT2A 	NP0	100pF	50	10%	★	Call/Web
765724	06031A101KAT2A 	NP0	100pF	100	10%	★	Call/Web
766057	06035A151KAT2A 	NP0	150pF	50	10%	★	Call/Web
765732	06031A151JAT2A 	NP0	150pF	100	5%	★	Call/Web
735103	06035A181JAT2A 	NP0	180pF	50	5%	★	Call/Web
734936	06031A221JAT2A 	NP0	220pF	100	5%	★	Call/Web
735218	06035A471JAT2A 	NP0	470pF	50	5%	★	Call/Web
735226	06035A471KAT2A 	NP0	470pF	50	10%	★	Call/Web
734987	06033A102JAT2A 	NP0	1000pF	25	5%	★	Call/Web
735091	06035A102JAT2A 	NP0	1000pF	50	5%	★	Call/Web
735648	0603YD474KAT2A 	X5R	.47µF	16	10%	★	Call/Web
735517	06036D105KAT2A 	X5R	1µF	6.3	10%	★	Call/Web
735630	0603YD105KAT2A 	X5R	1µF	16	10%	★	Call/Web
735525	0603YC101KAT2A 	X7R	100pF	16	10%	★	Call/Web
735293	06035C101KAT2A 	X7R	100pF	50	10%	★	Call/Web
765847	06031C101KAT2A 	X7R	100pF	100	10%	★	Call/Web
765978	06033C221MAT2A 	X7R	220pF	25	20%	★	Call/Web
735381	06035C221KAT2A 	X7R	220pF	50	10%	★	Call/Web
735429	06035C331KAT2A 	X7R	330pF	50	10%	★	Call/Web
765880	06031C331KAT2A 	X7R	330pF	100	10%	★	Call/Web
734961	06031C471KAT2A 	X7R	470pF	100	10%	★	Call/Web
735496	06035C681KAT2A 	X7R	680pF	50	10%	★	Call/Web
765898	06031C681JAT2A 	X7R	680pF	100	5%	★	Call/Web
765901	06031C681KAT2A 	X7R	680pF	100	10%	★	Call/Web
766348	0603ZC102KAT2A 	X7R	1000pF	10	10%	★	Call/Web
735533	0603YC102KAT2A 	X7R	1000pF	16	10%	★	Call/Web
734995	06033C102KAT2A 	X7R	1000pF	25	10%	★	Call/Web
735306	06035C102JAT2A 	X7R	1000pF	50	5%	★	Call/Web
735314	06035C102MAT2A 	X7R	1000pF	50	20%	★	Call/Web
765855	06031C102JAT2A 	X7R	1000pF	100	5%	★	Call/Web
735357	06035C122KAT2A 	X7R	1200pF	50	0%	★	Call/Web
735365	06035C152KAT2A 	X7R	1500pF	50	10%	★	Call/Web
734952	06031C152KAT2A 	X7R	1500pF	100	10%	★	Call/Web
766233	06035C182KAT2A 	X7R	1800pF	50	10%	★	Call/Web
735584	0603YC222KAT2A 	X7R	2200pF	16	10%	★	Call/Web
765986	06033C222KAT2A 	X7R	2200pF	25	10%	★	Call/Web
735390	06035C222JAT2A 	X7R	2200pF	50	5%	★	Call/Web
735402	06035C222KAT2A 	X7R	2200pF	50	10%	★	Call/Web
766250	06035C222MAT2A 	X7R	2200pF	50	20%	★	Call/Web
766268	06035C272KAT2A 	X7R	2700pF	50	10%	★	Call/Web
766006	06033C332KAT2A 	X7R	3300pF	25	10%	★	Call/Web



## Multilayer Ceramic Chip Capacitors (Continued)

## Size 0603 (Continued)

These products are sold on Tape and Reel  
\* Minimum order 5 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
735437	06035C332JAT2A	X7R	3300pF	50	5%	★	Call/Web
735445	06035C332KAT2A	X7R	3300pF	50	10%	★	Call/Web
735461	06035C392KAT2A	X7R	3900pF	50	10%	★	Call/Web
766022	06033C472KAT2A	X7R	4700pF	25	10%	★	Call/Web
735470	06035C472JAT2A	X7R	4700pF	50	5%	★	Call/Web
735488	06035C472KAT2A	X7R	4700pF	50	10%	★	Call/Web
766284	06035C562KAT2A	X7R	5600pF	50	10%	★	Call/Web
766292	06035C682KAT2A	X7R	6800pF	50	10%	★	Call/Web
766305	06035C822KAT2A	X7R	8200pF	50	10%	*	.108
766356	0603ZC103MAT2A	X7R	.01μF	10	20%	★	Call/Web
735541	0603YC103KAT2A	X7R	.01μF	16	10%	★	Call/Web
735007	06033C103KAT2A	X7R	.01μF	25	10%	★	Call/Web
735015	06033C103MAT2A	X7R	.01μF	25	20%	★	Call/Web
735322	06035C103JAT2A	X7R	.01μF	50	5%	★	Call/Web
735331	06035C103KAT4A	X7R	.01μF	50	10%	★	Call/Web
735349	06035C103MAT2A	X7R	.01μF	50	20%	★	Call/Web
765863	06031C103JAT2A	X7R	.01μF	100	5%	★	Call/Web
765960	0603C153JAT2A	X7R	.015μF	25	5%	★	Call/Web
735373	06035C153JAT2A	X7R	.015μF	50	5%	★	Call/Web
735592	0603YC223KAT2A	X7R	.022μF	16	10%	★	Call/Web
765994	06033C223JAT2A	X7R	.022μF	25	5%	★	Call/Web
735023	06033C223KAT2A	X7R	.022μF	25	10%	★	Call/Web
735605	0603YC333KAT2A	X7R	.033μF	16	10%	★	Call/Web
766014	06033C333JAT2A	X7R	.033μF	25	5%	★	Call/Web
735031	06033C333KAT2A	X7R	.033μF	25	10%	★	Call/Web
735453	06035C333KAT2A	X7R	.033μF	50	10%	★	Call/Web
735613	0603YC473KAT2A	X7R	.047μF	16	10%	★	Call/Web
735621	0603YC683KAT2A	X7R	.068μF	16	10%	★	Call/Web
735550	0603YC104JAT2A	X7R	.1μF	16	5%	*	.21
735568	0603YC104KAT4A	X7R	.1μF	16	10%	★	Call/Web
735576	0603YC104MAT2A	X7R	.1μF	16	20%	★	Call/Web
735664	0603ZC224KAT2A	X7R	.22μF	10	10%	★	Call/Web
735656	0603YG104JAT2A	Y5V	.1μF	16	+80/-20%	★	Call/Web
735509	06035G104JAT2A	Y5V	.1μF	50	+80/-20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

## Size 0805

\* Minimum order 5 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
766701	08055A1R0CAT2A	NPO	1pF	50	.25pF	★	Call/Web
766735	08055A2R2CAT2A	NPO	2.2pF	50	.25pF	*	.073
766751	08055A3R3CAT2A	NPO	3.3pF	50	.25pF	*	.073
766516	08051A3R3DAT2A	NPO	3.3pF	100	.5pF	★	Call/Web
736114	08055A6R8CAT2A	NPO	6.8pF	50	.25pF	★	Call/Web
766760	08055A6R8DAT2A	NPO	6.8pF	50	.5pF	★	Call/Web
766541	08051A6R8CAT2A	NPO	6.8pF	100	.25pF	★	Call/Web
766786	08055A8R2DAT2A	NPO	8.2pF	50	.5pF	★	Call/Web
766655	08055A100DAT2A	NPO	10pF	50	.5pF	★	Call/Web
735867	08055A100JAT2A	NPO	10pF	50	5%	★	Call/Web
735875	08055A100KAT2A	NPO	10pF	50	10%	★	Call/Web
766381	08051A100KAT2A	NPO	10pF	100	10%	★	Call/Web
766671	08055A120JAT2A	NPO	12pF	50	5%	★	Call/Web
766399	08051A120JAT2A	NPO	12pF	100	5%	★	Call/Web
735939	08055A150JAT2A	NPO	15pF	50	5%	★	Call/Web
735955	08055A180JAT2A	NPO	18pF	50	5%	*	.041
766428	08051A180JAT2A	NPO	18pF	100	5%	★	Call/Web
735963	08055A200JAT2A	NPO	20pF	50	5%	★	Call/Web
735971	08055A220JAT2A	NPO	22pF	50	5%	*	.10
735980	08055A220KAT2A	NPO	22pF	50	10%	★	Call/Web
735699	08051A220JAT2A	NPO	22pF	100	5%	*	.019
766436	08051A220KAT2A	NPO	22pF	100	10%	★	Call/Web
736018	08055A270JAT2A	NPO	27pF	50	5%	*	.098
766727	08055A270KAT2A	NPO	27pF	50	10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

## Size 0805 (Continued)

These products are sold on Tape and Reel  
\* Minimum order 5 pieces

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
766452	08051A270JAT2A	NPO	27pF	100	5%	★	Call/Web
736026	08055A300JAT2A	NPO	30pF	50	5%	*	.069
736034	08055A330JAT2A	NPO	33pF	50	5%	*	.099
735701	08051A330JAT2A	NPO	33pF	100	5%	★	Call/Web
735710	08051A330KAT2A	NPO	33pF	100	10%	★	Call/Web
736042	08055A390JAT2A	NPO	39pF	50	5%	*	.099
766495	08051A390JAT2A	NPO	39pF	100	5%	★	Call/Web
736069	08055A470JAT2A	NPO	47pF	50	5%	*	.042
736077	08055A470KAT2A	NPO	47pF	50	10%	★	Call/Web
766524	08051A470KAT2A	NPO	47pF	100	10%	★	Call/Web
736085	08055A560JAT2A	NPO	56pF	50	5%	*	.099
735736	08051A560JAT2A	NPO	56pF	100	5%	★	Call/Web
736106	08055A680JAT2A	NPO	68pF	50	5%	*	.041
766663	08055A101JAT4A	NPO	100pF	50	5%	*	.041
735883	08055A101KAT2A	NPO	100pF	50	10%	★	Call/Web
735681	08051A101KAT2A	NPO	100pF	100	10%	★	Call/Web
735912	08055A121JAT2A	NPO	120pF	50	5%	★	Call/Web
735947	08055A151JAT2A	NPO	150pF	50	5%	.20	.022
766401	08051A151JAT2A	NPO	150pF	100	5%	★	Call/Web
766410	08051A151KAT2A	NPO	150pF	100	10%	★	Call/Web
766698	08055A181JAT2A	NPO	180pF	50	5%	*	.70
735998	08055A221JAT2A	NPO	220pF	50	5%	*	.10
736000	08055A221KAT2A	NPO	220pF	50	10%	★	Call/Web
766719	08055A221JAT4A	NPO	220pF	50	5%	★	Call/Web
766479	08051A271JAT2A	NPO	270pF	100	5%	★	Call/Web
735728	08051A331JAT2A	NPO	330pF	100	5%	*	.026
736051	08055A391JAT2A	NPO	390pF	50	5%	*	.12
766508	08051A391JAT2A	NPO	390pF	100	5%	★	Call/Web
736093	08055A561JAT2A	NPO	560pF	50	5%	*	.053
736122	08055A821JAT2A	NPO	820pF	50	5%	*	.163
735904	08055A102KAT2A	NPO	1000pF	50	10%	★	Call/Web
735921	08055A122JAT2A	NPO	1200pF	50	5%	*	.082
766680	08055A152JAT2A	NPO	1500pF	50	5%	★	Call/Web
735795	08053A222JAT2A	NPO	2200pF	25	5%	★	Call/Web
736131	08055C101KAT2A	X7R	100pF	50	10%	★	Call/Web
766794	08055C101MAT2A	X7R	100pF	50	20%	★	Call/Web
736229	08055C221KAT2A	X7R	220pF	50	10%	★	Call/Web
736261	08055C271KAT2A	X7R	270pF	50	10%	★	Call/Web
736296	08055C471JAT2A	X7R	470pF	50	5%	★	Call/Web
736309	08055C471KAT2A	X7R	470pF	50	10%	★	Call/Web
766591	08051C471KAT2A	X7R	470pF	100	10%	★	Call/Web
736333	08055C681KAT2A	X7R	680pF	50	10%	★	Call/Web
766874	0805YC102KAT2A	X7R	1000pF	16	10%	★	Call/Web
736149	08055C102JAT2A	X7R	1000pF	50	5%	★	Call/Web
766807	08055C102KAT4A	X7R	1000pF	50	10%	*	.036
736157	08055C102MAT2A	X7R	1000pF	50	20%	★	Call/Web
735744	08051C102KAT2A	X7R	1000pF	100	10%	★	Call/Web
766575	08051C152KAT2A	X7R	1500pF	100	10%	★	Call/Web
736237	08055C222JAT2A	X7R	2200pF	50	5%	★	Call/Web
736245	08055C222KAT2A	X7R	2200pF	50	10%	★	Call/Web
766823	08055C222MAT2A	X7R	2200pF	50	20%	★	Call/Web
735761	08051C222JAT2A	X7R	2200pF	100	5%	★	Call/Web
735787	08052C222KAT2A	X7R	2200pF	200	10%	★	Call/Web
736270	08055C332KAT2A	X7R	3300pF	50	10%	★	Call/Web
766840	08055C392KAT2A	X7R	3900pF	50	10%	★	Call/Web
736317	08055C472JAT2A	X7R	4700pF	50	5%	★	Call/Web
735779	08051C472KAT2A	X7R	4700pF	100	10%	★	Call/Web
736341	08055C682KAT2A	X7R	6800pF	50	10%	★	Call/Web
766882	0805YC103KAT2A	X7R	.01μF	16	10%	★	Call/Web
735816	08053C103KAT2A	X7R	.01μF	25	10%	★	Call/Web
736165	08055C103JAT2A	X7R	.01μF	50	5%	★	Call/Web
736173	08055C103KAT4A	X7R	.01μF	50	10%	★	Call/Web
736181	08055C103MAT2A	X7R	.01μF	50	20%	★	Call/Web































★ Please call or visit our website for minimum order quantity and pricing.



## Multilayer Ceramic Chip Capacitors (Continued)































### Size 0805 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
735752	08051C103JAT2A 	X7R	.01µF	100	5%	★	Call/Web
766815	08055C153KAT2A 	X7R	.015µF	50	10%	★	Call/Web
736384	0805YC223KAT2A 	X7R	.022µF	16	10%	★	Call/Web
736253	08055C223JAT2A 	X7R	.022µF	50	5%	★	Call/Web
766831	08055C223KAT4A 	X7R	.022µF	50	10%	★	Call/Web
766583	08051C333KAT2A 	X7R	.033µF	100	10%	★	Call/Web
736325	08055C473JAT2A 	X7R	.047µF	50	5%	★	Call/Web
766604	08051C473KAT2A 	X7R	.047µF	100	10%	★	Call/Web
736376	0805YC104KAT2A 	X7R	.1µF	16	10%	★	Call/Web
766891	0805YC104MAT2A 	X7R	.1µF	16	20%	★	Call/Web
735824	08053C104JAT2A 	X7R	.1µF	25	5%	★	Call/Web
735832	08053C104KAT2A 	X7R	.1µF	25	10%	★	Call/Web
735841	08053C104MAT2A 	X7R	.1µF	25	20%	★	Call/Web
736190	08055C104JAT2A 	X7R	.1µF	50	5%	★	Call/Web
736202	08055C104KAT4A 	X7R	.1µF	50	10%	★	Call/Web
736211	08055C104MAT2A 	X7R	.1µF	50	20%	★	Call/Web
766567	08051C104KAT2A 	X7R	.1µF	100	10%	★	Call/Web
766621	08053C184KAT2A 	X7R	.18µF	25	10%	★	Call/Web
766639	08053C224MAT2A 	X7R	.22µF	25	20%	★	Call/Web
736392	0805YC474JAT2A 	X7R	.47µF	16	5%	★	Call/Web
736413	08052C105MAT2A 	X7R	.1µF	10	20%	★	Call/Web
766647	08053G104ZAT2A 	Y5V	.1µF	25	+80/-20%	★	Call/Web
766866	08055G104ZAT2A 	Y5V	.1µF	50	+80/-20%	★	Call/Web
766903	0805YG105ZAT2A 	Y5V	.1µF	16	+80/-20%	★	Call/Web
735859	08053G105ZAT2A 	Y5V	.1µF	25	+80/-20%	★	Call/Web
766911	0805G225ZAT2A 	Y5V	2.2µF	10	+80/-20%	★	Call/Web
736405	0805YG225ZAT2A 	Y5V	2.2µF	16	+80/-20%	★	Call/Web
736448	0805G475ZAT2A 	Y5V	4.7µF	10	+80/-20%	★	Call/Web
766858	08055E103MAT2A 	Z5U	.01µF	50	20%	★	Call/Web
736350	08055E104MAT2A 	Z5U	.1µF	50	20%	★	Call/Web



★ Please call or visit our website for minimum order quantity and pricing.

### Size 1206

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
740121	12061A100KAT2A 	NP0	10pF	100	10%	★	Call/Web
740130	12061A150JAT2A 	NP0	15pF	100	5%	★	Call/Web
766938	12061A180JAT2A 	NP0	18pF	100	5%	★	Call/Web
740164	12061A270JAT2A 	NP0	27pF	100	5%	★	Call/Web
740181	12061A390JAT2A 	NP0	39pF	100	5%	★	Call/Web
740201	12061A680JAT2A 	NP0	68pF	100	5%	★	Call/Web
740332	12065A101JAT2A 	NP0	100pF	50	5%	★	Call/Web
740148	12061A151JAT2A 	NP0	150pF	100	5%	★	Call/Web
740156	12061A221JAT2A 	NP0	220pF	100	5%	★	Call/Web
740172	12061A271JAT2A 	NP0	270pF	100	5%	★	Call/Web
740421	12065A471JAT2A 	NP0	470pF	50	5%	★	Call/Web
740199	12061A471JAT2A 	NP0	470pF	100	5%	★	Call/Web
740210	12061A821JAT2A 	NP0	820pF	100	5%	★	Call/Web
766920	12061A152KAT2A 	NP0	1500pF	100	10%	★	Call/Web
740359	12065A182JAT2A 	NP0	1800pF	50	5%	★	Call/Web
740383	12065A222KAT2A 	NP0	2200pF	50	10%	★	Call/Web
766946	12061A222KAT2A 	NP0	2200pF	100	10%	★	Call/Web
740391	12065A272JAT2A 	NP0	2700pF	50	5%	★	Call/Web
740412	12065A332JAT2A 	NP0	3300pF	50	5%	★	Call/Web
740631	12066D106KAT2A 	X5R	10µF	6.3	10%	★	Call/Web
766997	1206GC471KAT1A 	X7R	470pF	2000	10%	★	Call/Web
740439	12065C102KAT2A 	X7R	1000pF	50	10%	★	Call/Web
740228	12061C102JAT2A 	X7R	1000pF	100	5%	★	Call/Web
740501	12065C222KAT2A 	X7R	2200pF	50	10%	★	Call/Web
740535	12065C472KAT2A 	X7R	4700pF	50	10%	★	Call/Web
740578	12065C682JAT2A 	X7R	6800pF	50	5%	★	Call/Web
740455	12065C103KAT2A 	X7R	.01µF	50	10%	★	Call/Web
740236	12061C103JAT2A 	X7R	.01µF	100	5%	★	Call/Web
740279	12062C103KAT2A 	X7R	.01µF	200	10%	★	Call/Web
740519	12065C223KAT2A 	X7R	.022µF	50	10%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.


























♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave





### Size 1206 (Continued)

These products are sold on Tape and Reel

Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
740287	12062C223KAT2A 	X7R	.022µF	200	10%	★	Call/Web
740527	12065C333KAT2A 	X7R	.033µF	50	10%	★	Call/Web
740551	12065C473KAT2A 	X7R	.047µF	50	10%	★	Call/Web
766989	12065C473MAT2A 	X7R	.047µF	50	20%	★	Call/Web
740295	12063C104KAT2A 	X7R	.1µF	25	10%	★	Call/Web
740463	12065C104JAT2A 	X7R	.1µF	50	5%	★	Call/Web
740471	12065C104KAT4A 	X7R	.1µF	50	10%	★	Call/Web
740480	12065C104MAT2A 	X7R	.1µF	50	20%	★	Call/Web
766954	12063C104MAT2A 	X7R	.1µF	100	20%	★	Call/Web
766962	12065C154KAT2A 	X7R	.15µF	50	10%	★	Call/Web
740308	12063C224KAT2A 	X7R	.22µF	25	10%	★	Call/Web
766971	12065C334MAT2A 	X7R	.33µF	50	20%	★	Call/Web
740560	12065C474KAT2A 	X7R	.47µF	50	10%	★	Call/Web
740691	1206YC684KAT2A 	X7R	.68µF	16	10%	★	Call/Web
740658	1206YC105KAT2A 	X7R	1µF	16	10%	★	Call/Web
740666	1206YC105KAT2A 	X7R	1µF	16	10%	★	Call/Web
740674	1206YC105MAT2A 	X7R	1µF	16	20%	★	Call/Web
740720	1206ZC225KAT2A 	X7R	2.2µF	10	10%	★	Call/Web
740324	12063G105ZAT2A 	Y5V	1µF	25	+80/-20%	★	Call/Web
740711	1206YG225ZAT2A 	Y5V	2.2µF	16	+80/-20%	★	Call/Web
740738	1206ZG106ZAT2A 	Y5V	10µF	10	+80/-20%	★	Call/Web
740594	12065E104MAT2A 	Z5U	.1µF	50	20%	★	Call/Web
740607	12065E104ZAT2A 	Z5U	.1µF	50	+80/-20%	★	Call/Web
740615	12065E224MAT2A 	Z5U	.22µF	50	20%	★	Call/Web
740623	12065E334MAT2A 	Z5U	.33µF	50	20%	★	Call/Web





★ Please call or visit our website for minimum order quantity and pricing.

### Size 1210


Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
740771	12101C224KAT2A 	X7R	.22µF	100	10%	★	Call/Web
740789	12101C474KAT2A 	X7R	.47µF	100	10%	★	Call/Web
740826	1210YC475KAT2A 	X7R	4.7µF	16	10%	★	Call/Web
740800	12105E474MAT2A 	Z5U	.47µF	50	20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

### Size 1812


Part No.	Product No.	Temp. Coeff.	Value	Voltage (V)	Tolerance	Pricing	
						1	5
742899	18125C224KAT2A 	X7R	.22µF	50	10%	★	Call/Web
742901	18125C334KAT2A 	X7R	.33µF	50	10%	★	Call/Web
742944	18125E474MAT2A 	Z5U	.47µF	50	20%	★	Call/Web
742936	18125E105ZAT2A 	Z5U	1µF	50	+80/-20%	★	Call/Web

★ Please call or visit our website for minimum order quantity and pricing.

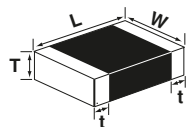


## 8mm (.315") Thru-Hole Ceramic Trimmer Capacitors

- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40-200 g-cm
- Operating temperature range: -55°C~+85°C
- Insulation resistance: 10MΩ minimum @ 250VDC
- Q Factor @ 1MHz: P/N 134820/32839: >300; P/N 32855/94449/94466: >200



## Multilayer Ceramic Chip Capacitors




Quantity SAVE

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

### X7R Series (±10%)

JAMECO		0603 SMT		Pricing per each*			
ValuePro							
Part No.	Capacitance	Volt.	10	100	500	1000	
544091	 .1uF	16	\$ .064	\$ .042	\$ .025	\$ .018	


0805 SMT	Part No.	Capacitance	Volt.	10	100	500	1000
	544323	1000pF	50	\$0.024	\$0.017	\$0.015	\$0.014
	87313	0.01µF	50	.048	.029	.017	.01
	544331	0.01µF	50	.057	.051	.041	.031
	544391	0.047µF	50	.07	.063	.05	.038
	87372	0.1µF	25	.09	.06	.05	.04
	544340	0.1µF	50	.087	.051	.03	.021
	544471	1µF	10	.31	.279	.223	.167

#### Other Manufacturers — Great Deals

87370	.1µF	25	\$ .036	\$ .022	\$ .018	\$ .014
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#### Other Manufacturers — Great Deals

651137	1000pF	50	\$0.126	\$0.106	\$0.059	\$0.044
651170	2200pF	50	.139	.106	.059	.044
87329	0.01µF	50	.081	.054	.034	.024
87388	0.1µF	50	.049	.029	.019	.016
651410	0.47µF	50	.205	.111	.073	.055
651428	1µF	25	.182	.105	.073	.066

JAMICO		1812 SMT		Pricing per each*			
ValuePro							
Part No.	Capacitance	Volt.	10	100	500	1000	
544817	 1µF	50	\$ .48	\$ .43	\$ .344	\$ .258	

\* Prepackaged: please order in quantity increments shown

### X5R Series (±10%)

0805 SMT			Pricing per each *			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
650513	1µF	16	\$ .174	\$ .097	\$ .052	\$ .039
650564	4.7µF	10	.321	.232	.126	.095

1206 SMT							
Part No.	Capacitance	Volt.	10	100	500	1000	
Other Manufacturers — Great Deals							
651461	4.7µF	25	\$ .455	\$ .387	\$ .31	\$ .233	
651516	10µF	10	.495	.421	.337	.253	
651524	22µF	6.3	1.02	.87	.70	.525	

1210 SMT						
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
651760	47µF	6.3	\$1.67	\$1.42	\$1.13	\$0.85
651778	100µF	6.3	5.06	2.87	1.56	1.17

### NPO Temp Series (±5%)

0805 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						

650011	22pF	50	\$ .07	\$ .046	\$ .026	\$ .018
JAMECO	1206 SMT		Pricing per each *			
ValuePro						
Part No.	Capacitance	Volt.	10	100	500	1000
544500	100pF	100	\$ .152	\$ .137	\$ .11	\$ .083
Other Manufacturers — Great Deals						

### Y5V Series (+80%, -20%)

0805 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
650708	4.7µF	10	\$ .65	\$ .59	\$ .468	\$ .351


1206 SMT							
Part No.	Capacitance	Volt.	10	100	500	1000	
Other Manufacturers — Great Deals							
651575	1µF	50	\$ .27	\$ .243	\$ .194	\$ .146	
651604	10µF	10	.077	.07	.056	.042	

## Resin Molded Chip Tantalum Electrolytic Capacitors (±10%)

Case Size (Dimensions in mm)

EIA Case Code	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0
E (7343-43)	7.3	4.3	4.1	1.3	2.4	1.0



JAMECO		10V SMT		Pricing per each*			
ValuePro			Case				
Part No.	Capacitance	Size	10	100	500	1000	
545035	 10µF	A	\$ .139	\$ .125	\$ .10	\$ .075	

16V SMT	Part No.	Capacitance	Case Size	10	100	500	1000
	545140	10µF	B	\$0.136	\$0.122	\$0.098	\$0.084
	545300	22µF	C	.51	.49	.47	.46
	545449	100µF	D	1.90	1.81	1.69	1.58

35V SMT	Part No.	Capacitance	Case Size	10	100	500	1000
	597388	15µF	D	\$1.49	\$1.26	\$1.01	\$0.76
	545351	22µF	D	1.32	1.17	.95	.85

\* Prepackaged: please order in quantity increments shown

## Commercial Customers

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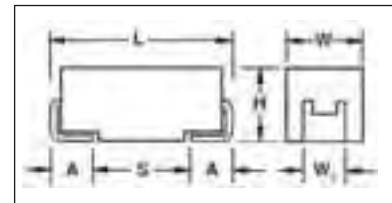
## TPS Series Low ESR Tantalum Chip Capacitors

- Low ESR levels previously only seen by other technologies
- Capacitance tolerance: 10%, 20%
- Temperature range: -55°C to 125°C

For more AVX Tantalum Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)



Case	EIA Code	L	W	H	W1	A	S (min.)
C	6032-28	6mm (0.236")	3.2mm (0.126")	2.6mm (0.102")	2.2mm (0.087")	1.3mm (0.051")	2.9mm (0.114")
D	7343-31	7.3mm (0.287")	4.3mm (0.169")	2.9mm (0.114")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")



These products are sold on Tape and Reel

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
852764	TPSC475K035R0600	C	4.7µF	35	10%	★ Call
852650	TPSC106M025R0500	C	10µF	25	20%	★ Call
768600	TPSC336K010R0375	C	33µF	10	10%	★ Call
768618	TPSC336K016R0300	C	33µF	16	10%	★ Call
768626	TPSC476K010R0350	C	47µF	10	10%	★ Call
852676	TPSC107K006R0150	C	100µF	6.3	10%	★ Call

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
852705	TPSC107M006R0150	C	100µF	6.3	20%	★ Call
768589	TPSC107M010R0100	C	100µF	10	20%	★ Call
852721	TPSC227K006R0125	C	220µF	6.3	10%	★ Call
852781	TPSD106K035R0300	D	10µF	35	10%	★ Call
852801	TPSD106M035R0300	D	10µF	35	20%	★ Call
852895	TPSD156M035R0300	D	15µF	35	20%	★ Call

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

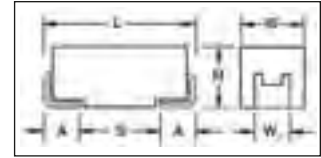


## TPS Series Low ESR Tantalum Chip Capacitors (Continued)







- Low ESR levels previously only seen by other technologies
- Capacitance tolerance: 10%, 20%
- Temperature range: -55°C to 125°C

For more AVX Tantalum Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)






Case	EIA Code	L	W	H	W1	A	S (min.)
D	7343-31	7.3mm (0.287")	4.3mm (0.169")	2.9mm (0.114")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
V	7361-38	7.3mm (0.287")	6.1mm (0.240")	3.45mm (0.136")	3.1mm (0.120")	1.4mm (0.055")	1.8mm (0.071")



These products are sold on Tape and Reel

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
852932	TPSD226M025R0200 	D	22µF	25	20%	★	Call
852975	TPSD336M020R0200 	D	33µF	20	20%	★	Call
852991	TPSD476M016R0150 	D	47µF	16	20%	★	Call
852861	TPSD107M010R0080 	D	100µF	10	20%	★	Call
852828	TPSD107K016R0150 	D	100µF	16	10%	★	Call
852887	TPSD107M016R0125 	D	100µF	16	20%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
853281	TPSE686K025R0125 	E	68µF	25	10%	★	Call
853020	TPSE107K016R0100 	E	100µF	16	10%	★	Call
853126	TPSE227M010R0100 	E	220µF	10	20%	★	Call
853249	TPSE477M010R0050 	E	470µF	10	20%	★	Call
853329	TPSV337K010R0060 	V	330µF	10	10%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

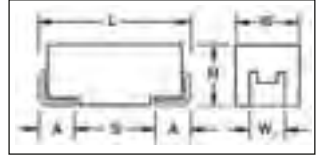


## TAJ Series 125°C Standard Tantalum Chip Capacitors


























The TAJ standard series encompasses the five key sizes recognized by major OEMs. The operational temperature is -55°C to 85°C at rated voltage and up to 125°C with voltage derated to 33%.

For more AVX Tantalum Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)


























Case	EIA Code	L	W	H	W1	A	S (min.)
A	3216-18	3.2mm (0.126")	1.6mm (0.063")	1.6mm (0.063")	1.2mm (0.047")	0.8mm (0.031")	1.1mm (0.043")
B	3528-21	3.5mm (0.138")	2.8mm (0.110")	1.9mm (0.075")	2.2mm (0.087")	0.8mm (0.031")	1.4mm (0.055")
C	6032-28	6mm (0.236")	3.2mm (0.126")	2.6mm (0.102")	2.2mm (0.087")	1.3mm (0.051")	2.9mm (0.114")
D	7343-31	7.3mm (0.287")	4.3mm (0.169")	2.9mm (0.114")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")
E	7343-43	7.3mm (0.287")	4.3mm (0.169")	4.1mm (0.162")	2.4mm (0.094")	1.3mm (0.051")	4.4mm (0.173")



These products are sold on Tape and Reel



Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
850195	TAJA105M025R 	A	1µF	25	20%	★	Call
768271	TAJA155K016R 	A	1.5µF	16	10%	★	Call
850371	TAJA225K010R 	A	2.2µF	10	10%	★	Call
768301	TAJA225M010R 	A	2.2µF	10	20%	★	Call
768298	TAJA225K020R 	A	2.2µF	20	10%	★	Call
850401	TAJA225K025R 	A	2.2µF	25	10%	★	Call
768319	TAJA335K010R 	A	3.3µF	3.3	10%	★	Call
850531	TAJA475M010R 	A	4.7µF	10	20%	★	Call
850494	TAJA475K016R 	A	4.7µF	16	10%	★	Call
850558	TAJA475M016R 	A	4.7µF	16	20%	★	Call
850523	TAJA475K020R 	A	4.7µF	20	10%	★	Call
768335	TAJA475K020Y 	A	4.7µF	20	10%	★	Call
850574	TAJA685K016R 	A	6.8µF	16	10%	★	Call
850259	TAJA106M006R 	A	10µF	6.3	20%	★	Call
850321	TAJA106M010R 	A	10µF	10	20%	★	Call
850347	TAJA106M016R 	A	10µF	16	20%	★	Call
768280	TAJA156K010R 	A	15µF	10	10%	★	Call
850435	TAJA226K006R 	A	22µF	6.3	10%	★	Call
850460	TAJA226K010R 	A	22µF	22	10%	★	Call
768327	TAJA336M006R 	A	33µF	6.3	20%	★	Call
850646	TAJB105M035R 	B	1µF	35	20%	★	Call
850873	TAJB225K020R 	B	2.2µF	20	10%	★	Call
850937	TAJB225M020R 	B	2.2µF	20	20%	★	Call
850902	TAJB225K025R 	B	2.2µF	25	10%	★	Call
851104	TAJB475K010R 	B	4.7µF	10	10%	★	Call
851198	TAJB475M010R	B	4.7µF	10	20%	★	Call
851227	TAJB475M016R	B	4.7µF	16	20%	★	Call
850671	TAJB106K006R	B	10µF	6.3	10%	★	Call
850734	TAJB106M006R	B	10µF	6.3	20%	★	Call
850793	TAJB106M010R	B	10µF	10	20%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing	
850700	TAJB106K020R 	B	10µF	20	10%	★	Call
850849	TAJB106M020R 	B	10µF	20	20%	★	Call
850961	TAJB226K006R 	B	22µF	6.3	10%	★	Call
850996	TAJB226K010R 	B	22µF	10	10%	★	Call
851024	TAJB226M010R 	B	22µF	10	20%	★	Call
851059	TAJB226M016R 	B	22µF	16	20%	★	Call
851243	TAJB476K006R 	B	47µF	6	10%	★	Call
851307	TAJB686K006R 	B	68µF	6.3	10%	★	Call
851340	TAJC105K050R 	C	1µF	50	10%	★	Call
768386	TAJC335K025R 	C	3.3µF	25	10%	★	Call
851593	TAJC475K020R 	C	4.7µF	20	10%	★	Call
851657	TAJC475M020R 	C	4.7µF	20	20%	★	Call
851614	TAJC475K025R 	C	4.7µF	25	10%	★	Call
768407	TAJC475M025R 	C	4.7µF	25	20%	★	Call
851631	TAJC475K035R 	C	4.7µF	35	10%	★	Call
851366	TAJC106K010R 	C	10µF	10	10%	★	Call
851403	TAJC106M025R 	C	10µF	25	20%	★	Call
768351	TAJC156K020R 	C	15µF	20	10%	★	Call
851462	TAJC226K006R 	C	22µF	6.3	10%	★	Call
851489	TAJC226K010R 	C	22µF	10	10%	★	Call
851534	TAJC226M010R 	C	22µF	10	20%	★	Call
851497	TAJC226K016R 	C	22µF	16	10%	★	Call
851542	TAJC226M016R 	C	22µF	16	20%	★	Call
851518	TAJC226K020R 	C	22µF	20	10%	★	Call
768360	TAJC226K025R 	C	22µF	25	10%	★	Call
851551	TAJC336K010R	C	33µF	10	10%	★	Call
851577	TAJC336K016R	C	33µF	16	10%	★	Call
851673	TAJC476K010R	C	47µF	10	10%	★	Call
768431	TAJC476M016R	C	47µF	16	20%	★	Call
851420	TAJC107K006R	C	100µF	6	10%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

TAJ Series Tantalum Chip Capacitors continued on next page

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## TAJ Series 125°C Standard Tantalum Chip Capacitors (Continued)

For more AVX Tantalum Capacitors  
visit [www.Jameco.com](http://www.Jameco.com)

These products are sold on Tape and Reel

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
851446	TAJC107K010R	C	100µF	10	10%	★ Call
768378	TAJC227K006R	C	220µF	6.3	10%	★ Call
851876	TAJD225K050R	D	2.2µF	50	10%	★ Call
768458	TAJD685K035R	D	6.8µF	35	10%	★ Call
851690	TAJD106K025R	D	10µF	25	10%	★ Call
851702	TAJD106M025R	D	10µF	25	20%	★ Call
851711	TAJD106M035R	D	10µF	35	20%	★ Call
851850	TAJD156K025R	D	15µF	25	10%	★ Call
851892	TAJD226K016R	D	22µF	16	10%	★ Call
851930	TAJD226M016R	D	22µF	16	20%	★ Call
851913	TAJD226K020R	D	22µF	20	10%	★ Call
851956	TAJD226M020R	D	22µF	20	20%	★ Call
851972	TAJD226M025R	D	22µF	25	20%	★ Call
851999	TAJD336K016R	D	33µF	16	10%	★ Call
852035	TAJD336M016R	D	33µF	16	20%	★ Call

★ Please call or visit our website for minimum order quantity and pricing.

Part No.	Product No.	Case	Value	Voltage	Tolerance	Pricing
852019	TAJD336K035R	D	33µF	35	10%	★ Call
852078	TAJD476K010R	D	47µF	10	10%	★ Call
852131	TAJD476M010R	D	47µF	10	20%	★ Call
852140	TAJD476M016R	D	47µF	16	20%	★ Call
852094	TAJD476K020R	D	47µF	20	10%	★ Call
852166	TAJD476M025R	D	47µF	25	20%	★ Call
852182	TAJD686K016R	D	68µF	16	10%	★ Call
851737	TAJD107K006R	D	100µF	6.3	10%	★ Call
851753	TAJD107K010R	D	100µF	10	10%	★ Call
851817	TAJD107M010R	D	100µF	10	20%	★ Call
851770	TAJD107K016R	D	100µF	16	10%	★ Call
851833	TAJD107M016R	D	100µF	16	20%	★ Call
852203	TAJE107K016R	E	100µF	16	10%	★ Call
852271	TAJE227M010R	E	220µF	10	20%	★ Call

★ Please call or visit our website for minimum order quantity and pricing.



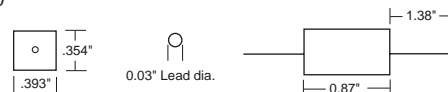
## 5-Watt Wirewound Resistors (5%)

## Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

Pricing Per Resistor					
Specify Part No. & Resistor Value	1	10	100	500	1000
(see Standard Resistor Values Chart below)	\$ .39	\$ .294	\$ .236	\$ .212	\$ .189

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



## Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660084	0.62	660236	2.7	660383	11	660527	39	660658	150	660800	510	660957	2.2k
659964	0.15	660092	0.68	660244	3.0	660391	12	660535	43	660666	160	660818	560	660965	2.4k
659972	0.20	660105	0.75	660252	3.3	660404	13	660543	47	660674	180	660826	620	660973	2.7k
659981	0.22	660113	0.82	660261	3.9	660412	15	660551	50	660682	200	660842	750	660981	3.0k
659999	0.27	660121	0.91	660279	4.0	660439	18	660560	56	660691	220	660851	820	660990	3.3k
660009	0.30	660130	1.0	660287	4.7	660447	20	660578	62	660703	240	660869	910	661001	3.9k
660017	0.33	660148	1.1	660295	5.0	660455	22	660586	68	660720	270	660877	1.0k	661010	4.7k
660025	0.39	660164	1.3	660316	5.6	660463	24	660594	75	660746	330	660885	1.1k	661028	5.0k
660033	0.43	660172	1.5	660324	6.2	660471	25	660607	82	660754	360	660893	1.2k	661036	10k
660041	0.47	660181	1.6	660341	7.5	660480	27	660615	91	660762	390	660906	1.3k	661044	20k
660050	0.50	660199	1.8	660359	8.2	660498	30	660623	100	660771	430	660922	1.6k	661052	25k
660068	0.51	660201	2.0	660367	9.1	660501	33	660631	120	660789	470	660931	1.8k		
660076	0.56	660228	2.4	660375	10	660519	36	660640	130	660797	500	660949	2.0k		

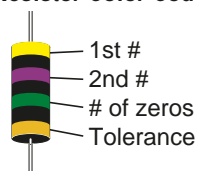
1/4-Watt & 1/2-Watt Resistor  
Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"
- Size: 5.4"L x 1.5"W



Part No.	Description	1	10	50
106884	1/4W & 1/2W	\$2.79	\$2.65	\$2.52

## Resistor Color Code



1st & 2nd Band	3rd Band	4th Band
0 - Black	Black	1
1 - Brown	Brown	10
2 - Red	Red	100
3 - Orange	Orange	1,000
4 - Yellow	Yellow	10,000
5 - Green	Green	100,000
6 - Blue	Blue	1,000,000
7 - Violet	Silver	0.01
8 - Gray	Gold	0.1
9 - White		

Additional SMT Capacitors & Resistors available at  
[www.Jameco.com](http://www.Jameco.com)

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Get It Straight!

Whether you're prototyping, hand-manufacturing a small run or repairing a machine-manufactured PC board, appearance and reliability are synonymous. Bent leads, odd-shaped-corners and corkscrew leads all tell a story when someone inspects your work.

A simple and very effective hand tool can greatly enhance the professional look of your PC board work. So consider a lead bender like the one on the left. It's very easy to select the specific lead separation you need. Just drop the device in the corresponding slot, bend your leads down and insert the device in your board.

Practical Practices  
Money Saving Tips for the Engineer

1/4-Watt Carbon Film Resistors (±5%)



Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Pricing Per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	2000
(see Standard Resistor Values Chart below)	\$.01	\$.009	\$.008	\$.007

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	2.2	690427	15	690620	100	690822	680	691024	4.7k	691227	33k	691420	220k	691622	1.5M
690224	2.4	690435	16	690638	110	690831	750	691032	5.1k	691235	36k	691438	240k	691631	1.6M
690232	2.7	690443	18	690646	120	690849	820	691041	5.6k	691243	39k	691446	270k	691892	1.8M
690241	3.0	690451	20	690654	130	690857	910	691059	6.2k	691251	43k	691454	300k	691649	2.0M
690259	3.3	690460	22	690662	150	690865	1.0k	691067	6.8k	691260	47k	691462	330k	691657	2.2M
690267	3.6	690478	24	690671	160	690873	1.1k	691075	7.5k	691278	51k	691471	360k	691665	2.4M
690275	3.9	690486	27	690689	180	690881	1.2k	691083	8.2k	691286	56k	691489	390k	691673	2.7M
690283	4.3	690494	30	690697	200	690890	1.3k	691091	9.1k	691294	62k	691497	430k	691681	3.0M
690291	4.7	690507	33	690700	220	690902	1.5k	691104	10k	691307	68k	691500	470k	691690	3.3M
690304	5.1	690515	36	690718	240	690911	1.6k	691112	11k	691315	75k	691518	510k	691702	3.6M
690312	5.6	690523	39	690726	270	690929	1.8k	691121	12k	691323	82k	691526	560k	691711	3.9M
690321	6.2	690531	43	690734	300	690937	2.0k	691139	13k	691331	91k	691534	620k	691737	4.7M
690339	6.8	690540	47	690742	330	690945	2.2k	691147	15k	691340	100k	691542	680k	691745	5.1M
690347	7.5	690558	51	690751	360	690953	2.4k	691155	16k	691358	110k	691551	750k	691753	5.6M
690363	8.2	690566	56	690769	390	690961	2.7k	691163	18k	691366	120k	691569	820k	691761	6.2M
690371	9.1	690574	62	690777	430	690970	3.0k	691171	20k	691374	130k	691577	910k	691770	6.8M
690380	10	690582	68	690785	470	690988	3.3k	691180	22k	691382	150k	691585	1.0M	691788	7.5M
690398	11	690591	75	690793	510	690996	3.6k	691198	24k	691391	160k	691593	1.1M	691796	8.2M
690401	12	690603	82	690806	560	691008	3.9k	691201	27k	691403	180k	691606	1.2M	691809	9.1M
690419	13	690611	91	690814	620	691016	4.3k	691219	30k	691411	200k	691614	1.3M	691817	10M

\*▲● see above

1/2-Watt Carbon Film Resistors (±5%)



Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Pricing Per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	2000
(see Standard Resistor Values Chart below)	\$.034	\$.023	\$.017	\$.016

Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing	
				1	10
107853	ASST1230	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked by # (540 pcs.)	\$15.69	\$14.17
107845	ASST1227	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107837	ASST1270	—	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) (see chart below)	10.95	9.95
107879	CAB12R	—	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 100	29.95	26.95

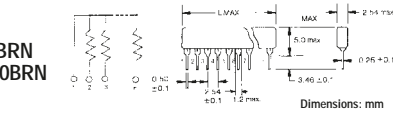
Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	1.0	659796	8.2	661212	62	661423	470	661642	3.6k	661853	27k	662063	200k	662274	1.5M
659585	1.1	659809	9.1	661221	68	661431	510	661651	3.9k	661861	30k	662071	220k	662282	1.6M
659593	1.2	659817	10	661239	75	661440	560	661669	4.3k	661870	33k	662080	240k	662291	1.8M
659606	1.3	659825	11	661247	82	661458	620	661677	4.7k	661888	36k	662098	270k	662303	2.0M
659614	1.5	659833	12	661255	91	661466	680	661685	5.1k	661896	39k	662101	300k	662311	2.2M
659622	1.6	659841	13	661263	100	661474	750	661693	5.6k	661909	43k	662119	330k	662320	2.4M
659631	1.8	659850	15	661271	110	661482	820	661706	6.2k	661917	47k	662127	360k	662338	2.7M
659649	2.0	659868	16	661280	120	661491	910	661714	6.8k	661925	51k	662135	390k	662346	3.0M
659657	2.2	659876	18	661298	130	661503	1.0k	661722	7.5k	661933	56k	662143	430k	662354	3.3M
659665	2.4	659884	20	661301	150	661511	1.1k	661731	8.2k	661941	62k	662151	470k	662362	3.6M
659673	2.7	659892	22	661319	160	661520	1.2k	661749	9.1k	661950	68k	662160	510k	662371	3.9M
659681	3.0	659905	24	661327	180	661538	1.3k	661757	10k	661968	75k	662178	560k	662389	4.3M
659690	3.3	661124	27	661335	200	661546	1.5k	661765	11k	661976	82k	662186	620k	662397	4.7M
659702	3.6	661132	30	661343	220	661554	1.6k	661773	12k	661984	91k	662194	680k	662400	5.1M
659711	3.9	661141	33	661351	240	661562	1.8k	661781	13k	661992	100k	662207	750k	662418	5.6M
659729	4.3	661159	36	661360	270	661571	2.0k	661790	15k	662004	110k	662215	820k	662426	6.2M
659737	4.7	661167	39	661378	300	661589	2.2k	661802	16k	662012	120k	662223	910k	662434	6.8M
659745	5.1	661175	43	661386	330	661597	2.4k	661811	18k	662021	130k	662231	1.0M	662442	7.5M
659753	5.6	661183	47	661394	360	661606	2.7k	661829	20k	662039	150k	662240	1.1M	662451	8.2M
659761	6.2	661191	51	661407	390	661618	3.0k	661837	22k	662047	160k	662258	1.2M	662469	9.1M
659770	6.8	661204	56	661415	430	661634	3.3k	661845	24k	662055	180k	662266	1.3M	662477	10M
659788	7.5														

(✓), (X), (#) symbols indicate Resistor values included in Assortments above.

Single-In-Line "SIP" Resistor Networks ( $\pm 2\%$ )8 and 10-Pin Bussed (125mW/Resistor)  $\pm 2\%$ 

Features (8BRN/10BRN):

- 8-pin package (7 resistors) = 8BRN
- 10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/resistor
- Operating temperature range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Insulation resistance: 10,000M $\Omega$  min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.20" body ht.)
- Low profile is compatible with DIPs
- Cermet thick film construction



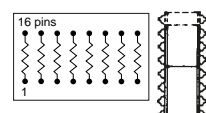
Part No.	Pins	Ohms
97826	8	10k
97851	10	330
97869	10	470
97877	10	1.0k
97893	10	2.2k
24660	10	4.7k
24643	10	10k
98087	10	47k
98095	10	100k

Pricing per each			
1	10	100	1000
\$ .25	\$ .19	\$ .15	\$ .12
Pricing for P/N 97826			
\$ .24	\$ .18	\$ .14	\$ .11

Dual-In-Line "DIP" Resistor Networks ( $\pm 2\%$ )16-Pin Isolated (140mW/Resistor)  $\pm 2\%$ 

Features (161RN):

- Tolerance:  $\pm 2\%$
- Max. operating voltage: 100V
- Temperature coefficient:  $\pm 100$ ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation res.: 10,000M $\Omega$  min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Pricing per each			
1	10	100	1000
\$ .39	\$ .35	\$ .31	\$ .30

Part No.	Ohms
108556	100
108564	220
108572	330
108581	470
108599	1.0k
108610	4.7k
108628	10k
108644	100k

## SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A - B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN	770-81-R...	708A...	4608X-101...	CSC08A01...	L08-1-R...	356CF... X2PD	9S08... GL002
10BRN	770-101-R...	710A...	4610X-101...	CSC10A01...	L10-1-R...	256CX... X2PD	9S10... GL002
161RN	761-3-R...	316B...	4116R-001...	MDP16-03...	898-3-R...	916C... X5SR	D16H... 12-J



## 4600 Series Conformal SIP Resistors

- Max. operating voltage: 100V
- Operating temp.: -55°C to 125°C
- Tolerance: 10 $\Omega$  to 49 $\Omega$ :  $\pm 1\%$ ; 50 $\Omega$  to 5M $\Omega$ :  $\pm 2\%$
- Dielectric withstanding voltage: 200V<sub>RMS</sub>
- UL94V-0 flammability rating
- Epoxy resin body

## 4-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
772588	4604X-101-473	47k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 4-Pin Isolated, Low Profile

Part No.	Product No.	Ohms	Price
772617	4604X-102-473LF	47k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 4-Pin Bussed, Medium Profile

Part No.	Product No.	Ohms	Price
772625	4605M-101-103LF	10k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 5-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
772668	4605X-101-681	680	Call

★ Please call or visit our website for minimum order quantity and pricing

## 6-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
772676	4606X-101-222LF	2.2k	Call
772705	4606X-101-472LF	4.7k	Call
772684	4606X-101-223LF	22k	Call
772692	4606X-101-224LF	220k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 6-Pin Isolated, Low Profile

Part No.	Product No.	Ohms	Price
772772	4606X-102-220LF	22	Call
772887	4606X-102-561LF	560	Call
772721	4606X-102-102LF	1k	Call
772844	4606X-102-392LF	3.9k	Call
772836	4606X-102-333	33k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 7-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
772908	4607X-101-103LF	10k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 8-Pin Isolated, Medium Profile

Part No.	Product No.	Ohms	Price
772941	4608M-102-151LF	150	Call
772932	4608M-102-103LF	10k	Call

★ Please call or visit our website for minimum order quantity and pricing

For more Bourns SIP Resistors visit [www.Jameco.com](http://www.Jameco.com)

★ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.



4-pin

## 8-Pin Bussed, Low Profile (Continued)

Part No.	Product No.	Ohms	Price
772975	4608X-101-121LF	120	Call
772983	4608X-101-181LF	180	Call
772959	4608X-101-102LF	1k	Call
772991	4608X-101-332LF	3.3k	Call
773003	4608X-101-472LF	4.7k	Call
772967	4608X-101-104LF	100k	Call
773011	4608X-102-100LF	10	Call
773020	4608X-102-101LF	100	Call
773062	4608X-102-121LF	120	Call
773142	4608X-102-221LF	220	Call
773265	4608X-102-471LF	470	Call
773311	4608X-102-561LF	560	Call
773185	4608X-102-332LF	3.3k	Call
858322	4608X-102-472	4.7k	Call
773273	4608X-102-472LF	4.7k	Call
773337	4608X-102-562LF	5.6k	Call
773206	4608X-102-333LF	33k	Call
773281	4608X-102-473LF	47k	Call
773046	4608X-102-104LF	100k	Call
773214	4608X-102-334LF	330k	Call
773054	4608X-102-105LF	1M	Call

★ Please call or visit our website for minimum order quantity and pricing

## 10-Pin Bussed, Low Profile

Part No.	Product No.	Ohms	Price
773484	4610X-101-101LF	100	Call
773521	4610X-101-331LF	330	Call
773492	4610X-101-102LF	1k	Call
773530	4610X-101-332LF	3.3k	Call
773505	4610X-101-103LF	10k	Call
773513	4610X-101-223LF	22k	Call
773548	4610X-101-473LF	47k	Call

★ Please call or visit our website for minimum order quantity and pricing

## 10-Pin Isolated, Low Profile

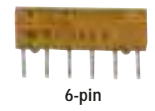
Part No.	Product No.	Ohms	Price
773636	4610X-102-330	33	Call
773695	4610X-102-560	56	Call
773628	4610X-102-272	2.7k	Call
773687	4610X-102-472LF	4.7k	Call
858787	4610X-102-105	1M	Call

★ Please call or visit our website for minimum order quantity and pricing



## 4300R Series Low-Profile Molded SIP Resistors

- Max. operating voltage: 100V
- Operating temp.: -55°C to 125°C
- Dielectric withstanding voltage: 200V<sub>RMS</sub>
- UL94V-0 flammability rating
- Solder coated copper leads
- Novolac epoxy body



★ Tolerance: 2%

## 6-Pin Bussed, 0.75-Watt

Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
771711	4306R-101-151	150	\$ .34	\$ .294	
771737	4306R-101-221	220	.34	.294	
771770	4306R-101-471	470	.34	.294	
856600	4306R-101-102	1k	.319	.287	
771729	4306R-101-202	2k	.344	.294	
771745	4306R-101-222	2.2k	.34	.294	
771761	4306R-101-272	2.7k	.34	.294	
856669	4306R-101-332	3.3k	.34	.294	
856685	4306R-101-472	4.7k	.34	.294	
771788	4306R-101-562	5.6k	.34	.294	
856634	4306R-101-103	10k	.34	.294	
771681	4306R-101-103LF	10k	.34	.294	
771753	4306R-101-223	22k	.34	.294	
856714	4306R-101-473	47k	.34	.294	
771690	4306R-101-104	100k	.34	.294	
771702	4306R-101-105	1M	.34	.294	

## 6-Pin Isolated, 0.75-Watt

★ Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
771796	4306R-102-101	100	★	Call	Call
771809	4306R-102-102	1k	*	.34	.294
771825	4306R-102-122	1.2k	*	.34	.294
856731	4306R-102-103	10k	*	.34	.294
771817	4306R-102-104	100k	*	.34	.294

★ Please call or visit our website for minimum order quantity and pricing

## 8-Pin Bussed, 1-Watt

★ Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
771868	4308R-101-221	220	*	\$ .388	\$ .333
771905	4308R-101-331	330	*	.388	.333
771921	4308R-101-471	470	*	.388	.333
771948	4308R-101-681	680	*	.388	.333
856765	4308R-101-102	1k	*	.388	.333
771850	4308R-101-152	1.5k	*	.388	.333
771876	4308R-101-222	2.2k	*	.327	.304
771913	4308R-101-332	3.3k	*	.388	.333
856853	4308R-101-472	4.7k	*	.367	.33
771956	4308R-101-682	6.8k	*	.388	.333

# Molded SIP Resistors & SMT Resistors Arrays



## 4300R Series Low-Profile Molded SIP Resistors (Continued)

### 8-Pin Bussed, 1-Watt (Cont'd)

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
856790	4308R-101-103	10k	..... *	\$ .367	\$ .33
771884	4308R-101-223	22k	..... *	.388	.333
771930	4308R-101-473	47k	..... *	.388	.304
856829	4308R-101-104	100k	..... *	.388	.333
771892	4308R-101-224	220k	..... *	.388	.333

### 8-Pin Isolated, 1-Watt

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
772060	4308R-102-220	22	..... *	\$ .388	\$ .333
772123	4308R-102-330	33	..... .51	.401	.333
856992	4308R-102-470	47	..... *	.388	.333
772166	4308R-102-680	68	..... *	.388	.333
771964	4308R-102-101	100	..... *	.388	.333
771999	4308R-102-121	120	..... *	.388	.333
772019	4308R-102-151	150	..... *	.388	.304
772035	4308R-102-181	180	..... *	.388	.304
772078	4308R-102-221	220	..... *	.388	.333
772107	4308R-102-271	270	..... *	.388	.333
772131	4308R-102-331	330	..... *	.388	.304
857021	4308R-102-471	470	..... *	.388	.304
772174	4308R-102-681	680	..... *	.388	.304
856870	4308R-102-102	1k	..... *	.367	.304
772001	4308R-102-122	1.2k	..... *	.388	.304
772051	4308R-102-202	2k	..... *	.388	.304
772086	4308R-102-222	2.2k	..... *	.388	.304
772115	4308R-102-272	2.7k	..... *	.388	.304
772140	4308R-102-332	3.3k	..... *	.388	.304
857055	4308R-102-472	4.7k	..... *	.388	.304
856909	4308R-102-103	10k	..... *	.385	.334
771972	4308R-102-103F	10k	..... *	.393	.373

† 1% tolerance

### 8-Pin Isolated, 1-Watt (Cont'd)

\* Minimum order 5 pieces

Part No.	Product No.	Ohms	1	5	100
772027	4308R-102-153	15k	..... *	\$ .388	\$ .304
856968	4308R-102-223	22k	..... *	.388	.304
772158	4308R-102-473	47k	..... *	.388	.304
856933	4308R-102-104	100k	..... *	.388	.304
772043	4308R-102-184	180k	..... *	.391	.338
772094	4308R-102-224	220k	..... *	.388	.304
771981	4308R-102-105LF	1M	..... *	.388	.304

### 9-Pin Bussed, 1.13-Watt

Part No.	Product No.	Ohms	1	5	100
772203	4309R-101-272	2.7k	.. \$ .54	\$ .465	\$ .461
857101	4309R-101-472	4.7k	.... .54	.465	.461
857080	4309R-101-103	10k	.... .54	.465	.461
772191	4309R-101-223	22k	.... .54	.465	.461

### 10-Pin Isolated, 1.25-Watt

Part No.	Product No.	Ohms	1	5	100
857442	4310R-102-101	100	... \$ .55	\$ .466	\$ .402
772490	4310R-102-331	330	..... *	Call	Call
772529	4310R-102-471	470	..... .55	.466	.402
857531	4310R-102-681	680	..... .55	.466	.402
772431	4310R-102-102	1k	..... .55	.466	.402
772449	4310R-102-102LF	1k	..... .55	.466	.402
772457	4310R-102-122	1.2k	.... .55	.466	.402
772465	4310R-102-202	2k	..... .55	.466	.402
772481	4310R-102-222	2.2k	.... .55	.466	.402
772502	4310R-102-332	3.3k	.... .55	.466	.402
772537	4310R-102-472	4.7k	.... .55	.466	.402
857477	4310R-102-103	10k	.... .52	.437	.394
772473	4310R-102-203	20k	.... .55	.466	.402
772511	4310R-102-333	33k	.... .55	.466	.402
857506	4310R-102-104	100k	... .55	.466	.402

\* Please call or visit our website for minimum order quantity and pricing.

### 10-Pin Bussed, 1.25-Watt

Part No.	Product No.	Ohms	1	5	100
772369	4310R-101-470	47	..... \$ .55	\$ .467	\$ .40
772211	4310R-101-101	100	..... .52	.359	.319
857240	4310R-101-151	150	..... .55	.466	.402
772254	4310R-101-181	181	..... .55	.466	.402
772300	4310R-101-271LF	270	..... .55	.466	.403
772326	4310R-101-331	330	..... *	Call	Call
772342	4310R-101-391	390	..... .56	.47	.40
857354	4310R-101-471	470	..... .53	.446	.402
772393	4310R-101-681	680	..... .55	.466	.402
772414	4310R-101-821	820	..... .55	.466	.402
857135	4310R-101-102	1k	..... .52	.437	.394
772220	4310R-101-102LF	1k	..... .53	.446	.402
772262	4310R-101-182	1.8k	.... .55	.466	.402
772271	4310R-101-202	2k	..... .55	.466	.402
857274	4310R-101-222	2.2k	.... .53	.446	.402
772318	4310R-101-272	2.7k	.... .55	.466	.402
857320	4310R-101-332	3.3k	..... *	Call	Call
772351	4310R-101-392	3.9k	.... .55	.466	.402
857389	4310R-101-472	4.7k	.... .51	.437	.394
772377	4310R-101-472LF	4.7k	.... .53	.446	.402
772385	4310R-101-562	5.6k	.... .55	.466	.402
772406	4310R-101-682	6.8k	.... .55	.466	.402
772422	4310R-101-822	8.2k	..... *	Call	Call
857160	4310R-101-103	10k	.... .52	.437	.394
772238	4310R-101-103LF	10k	.... .53	.446	.402
772289	4310R-101-203	20k	.... .55	.466	.402
857291	4310R-101-223	22k	..... *	Call	Call
772334	4310R-101-333	33k	.... .55	.466	.402
857418	4310R-101-473	47k	.... .52	.436	.394
857215	4310R-101-104	100k	.... .52	.436	.394
772297	4310R-101-224	220k	..... *	Call	Call
772246	4310R-101-105	1M	.... .55	.466	.402

\* Please call or visit our website for minimum order quantity and pricing.

For more Bourns SIP Resistors visit [www.jameco.com](http://www.jameco.com)



- High density
- Improvement of placement efficiency
- 2 resistors in 1mm x 1mm (EXB24V)
- 4 resistors in 2mm x 1mm (EXB28V)
- 8 resistors in 3.8mm x 1.6mm (EXB2HV)
- 4 resistors in 3.2mm x 1.6mm (EXB38V, V8V)

## Surface Mount Chip Resistor Arrays

### Improvement of Placement Efficiency

Type	Dimensions in mm							
	L	W	T	A1	A2	B	P	G
Convex Terminal Type								
EXB24V (0402 x 2)	1.0	1.0	0.35	0.40	—	0.18	(0.65)	0.25
EXB28V (0402 x 4)	2.0	1.0	0.35	0.45	0.35	0.20	(0.50)	0.25
EXB28HV (0402 x 8)	3.8	1.6	0.45	0.35	0.35	0.30	(0.50)	0.30
EXB38V (0603 x 4)	3.2	1.6	0.50	0.65	0.45	0.30	(0.80)	0.35
Concave Terminal Type								
EXBN8V (0402 x 4)	2.0	1.0	0.45	0.30	0.30	0.20	(0.50)	0.30
EXBV8V (0603 x 4)	3.2	1.6	0.60	0.60	0.60	0.30	(0.80)	0.45

\* Minimum order 10 pieces

Part No.	Product No.	Case Type	No. of Resistors	Value (Ω)	Tolerance	Pricing	
						1	10
865119	EXB-24V100JX	0402	2	10	5%	★	Call
865258	EXB-28VROOXX	0402	4	0	0%	★	Call
865143	EXB-28V100JX	0402	4	10	5%	★	Call
865207	EXB-28V220JX	0402	4	22	5%	★	Call
922890	EXB-28V330JX	0402	4	33	5%	★	Call
865231	EXB-28V390JX	0402	4	39	5%	★	Call
865240	EXB-28V470JX	0402	4	47	5%	★	Call
922953	EXB-28V560JX	0402	4	56	5%	★	Call
865151	EXB-28V101JX	0402	4	100	5%	★	Call
865223	EXB-28V331JX	0402	4	330	5%	*	.097
922929	EXB-28V472JX	0402	4	4.7k	5%	★	Call
922865	EXB-28V103JX	0402	4	10k	5%	★	Call
865194	EXB-28V203JX	0402	4	20k	5%	★	Call
865178	EXB-28V104JX	0402	4	100k	5%	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend			
New	Sale	Lower\$	QtySave

Order 24/7 Toll Free 1-800-831-4242

# SMT Resistor Arrays & Film Resistors



RoHS Compliant Product  
RoHS Also Available

Details  
on  
Page 1

Color Code Legend  
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## Chip Resistor Array Concave and Convex

- Power rating per resistor: 31mW @ 70°C
- Operating temperature: -55°C to 125°C

- Package rating: 125mW @ 70°C
- Tolerance: ±5%

### 0804 Package CAT10 Series: Concave

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing
774090	CAT10-5R1J4LF	4	5.1	★ Call
774102	CAT10-7R5J4LF	4	7.5	★ Call
774065	CAT10-100J4LF	4	10	★ Call
774073	CAT10-180J4LF	4	18	★ Call
774081	CAT10-220J4LF	4	22	★ Call

★ Please call or visit our website for minimum order quantity and pricing.

### 1206 Package CAT16 Series: Concave

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing
774111	CAT16-000J4LF	4	0	★ Call
774153	CAT16-220J2LF	4	22	★ Call
774161	CAT16-220J4GLF	4	22	★ Call
774170	CAT16-220J4LF	4	33	★ Call
774250	CAT16-750J4LF	4	75	★ Call
774209	CAT16-331J4LF	4	330	★ Call
774217	CAT16-333J4LF	4	33k	★ Call

↑ 2 elements (isolated) ★ Please call or visit our website for minimum order quantity and pricing.



CAT10 Series



CAY10 Series



CAT16/CAY16 Series

### 0804 Package CAY10 Series: Convex

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing
774313	CAY10-5R1J2LF	2	5.1	★ Call
774276	CAY10-180J2LF	2	18	★ Call
774284	CAY10-220J2LF	2	22	★ Call

↑ 2 elements (isolated) ★ Please call or visit our website for minimum order quantity and pricing.

### 1206 Package CAY16 Series: Convex

Part No.	Product No.	No. of Resistors	Value (Ω)	Pricing
774381	CAY16-240J4LF	4	24	★ Call
774444	CAY16-822J4LF	4	8.2k	★ Call
774330	CAY16-103J4LF	4	10k	★ Call
774356	CAY16-104J4LF	4	100k	★ Call

★ Please call or visit our website for minimum order quantity and pricing.

## 0805 Resistor Assortment (±5%)

144 Values, 50 pcs. each;  
7,200 pcs. Total

- Max. overload voltage: 200V
- 1/8 watts
- Weight: 1.9 lbs.
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: -50°C to 120°C
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

Part No.	Cross Ref. No.	1	10	25
172806	16-500	\$79.95	\$71.95	\$64.79

Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
3.6	30	160	820	3.9k	20k	100k	560k	4.3M
4.3	33	180	910	4.3k	22k	110k	620k	4.7M
4.7	39	200	1.0k	4.7k	24k	120k	750k	5.1M
5.1	43	220	1.1k	5.1k	27k	150k	820k	5.6M
5.6	47	240	1.2k	5.6k	30k	160k	910k	6.8M
6.2	51	270	1.3k	6.2k	33k	180k	1.0M	7.5M
6.8	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
7.5	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
8.2	68	390	1.8k	9.1k	43k	240k	2.0M	10M

## 1206 Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total

- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H



Packaged in strips of 200 pcs. each

Part No.	Cross Ref. No.	1	10	25
156882	SMR1206SB	\$99.99	\$89.99	\$79.99

Value Chart (Ohms)

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M



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## 5% Single Value Resistor Pricing

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Specify Part No. & Resistor Value	Pricing
0402 (Resistor Values Chart)	★ Call
1216 (Resistor Values Chart)	★ Call
0603 (Resistor Values Chart)	★ Call
0805 (Resistor Values Chart)	★ Call

★ Please call or visit our website for minimum order quantity and pricing.

### Case Size 0402 (ERJ-2GEJ Series)

Part No.	Ohms	Part No.	Ohms
920827	0	862065	680
861901	1	861943	2.7k
862031	5.1	862006	4.7k
861775	10	920886	10k
920915	33	861791	100k
920851	100	861812	1M
861871	150	861847	10M
861978	430		

### Case Size 1206 (ERJ-8GEY Series)

Part No.	Ohms	Part No.	Ohms
922611	0	864845	1k
864888	1	864909	3k
864933	3	864925	3.3k
864829	10	922654	4.7k
864837	100	864870	18k
864896	270	864853	100k
864917	330	864861	10M

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 5% Precision Thick Film Resistors

Case Size	Power Rating	Max. RCWV	Overload Voltage	Dimensions (mm)					Temperature Coefficient	Panasonic Series No.
				L	W	a	b	t		
0402	1/16W	50V	100V	1	0.5	0.35	0.2	0.25	—	ERJ-2GEJ
0603	1/10W	50V	100V	1.6	0.8	0.45	0.3	0.3	<10Ω: -100ppm/°C ~ +600ppm/°C; 10Ω to 1MΩ: ±200ppm/°C; 1MΩ>: -400ppm/°C ~ +600ppm/°C	ERJ-3GEY ERJ-6GEY ERJ-8GEY
0805	1/8W	150V	200V	2	1.25	0.6	0.4	0.4		
1206	1/4W	200V	400V	302	1.6	0.6	0.5	0.5		

### Case Size 0603 (ERJ-3GEY Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
921601	0	864132	270	864108	2k	864124	22k
864095	1	864167	300	921811	2.2k	864212	51k
864159	2.2	921889	330	864183	3.9k	864247	62k
921635	10	921918	470	921942	4.7k	921758	100k
921854	33	864255	680	864239	5.6k	864141	270k
864191	47	864271	820	864263	6.8k	864175	330k
864221	56	921694	1k	864280	8.2k	921782	1M
921977	75	864079	1.2k	921723	10k	864204	4.7M
921660	100	864087	1.5k	864116	20k	864061	10M

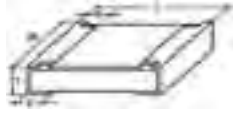
### Case Size 0805 (ERJ-6GEY Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
922312	10	922460	220	864626	2.4k	864618	22k
864597	18	864642	300	864634	2.7k	864669	47k
864685	56	922494	330	864651	3.3k	864677	51k
864706	68	922523	470	864714	6.8k	864693	62k
864722	75	922558	820	922401	10k	922435	100k
922347	100	922371	1K	864589	16k	864562	10M
864571	150	864600	2.2k				



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## 1% Precision Thick Film Resistors



### 1% Single Value Resistor Pricing

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

Pricing Per Unit		
Specify Part No. & Resistor Value Pricing		
0402 (Resistor Values Chart)	★	Call
1206 (Resistor Values Chart)	★	Call
0603 (Resistor Values Chart)	★	Call
0805 (Resistor Values Chart)	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

### Case Size 0402 (ERJ-2RKfxxxxX Series)

Part No.	Ohms	Part No.	Ohms
862188	10 $\Omega$	862153	4.99k $\Omega$
862276	49.9 $\Omega$	862090	10k $\Omega$
920940	100 $\Omega$	862217	33.2k $\Omega$
862305	750 $\Omega$	862129	100k $\Omega$
921002	1k $\Omega$	862153	1M $\Omega$

### Case Size 1206 (ERJ-8ENfxxxxV Series)

Part No.	Ohms	Part No.	Ohms
864749	10 $\Omega$	864731	1k $\Omega$
864765	15 $\Omega$	864773	1.96k $\Omega$
864790	49.9 $\Omega$	864781	2.21k $\Omega$
864757	124 $\Omega$	864802	6.34k $\Omega$
864811	681 $\Omega$	922582	10k $\Omega$

Case Size	Power Rating @ 70°C	Max. RCWV	Max. Overload Voltage	Dimensions (mm)					Temperature Coefficient	Panasonic Series No.
				L	W	a	b	t		
0402	1/16W	50V	100V	1	0.5	0.2	0.25	0.35	10 - 1M $\Omega$ $\pm$ 100ppm/°C	ERJ-2RKfxxxxX
0603	1/16W - (1/10W)	50V	100V	1.6	0.8	0.3	0.3	0.45	10 - 1M $\Omega$ $\pm$ 100ppm/°C	ERJ-3EKfxxxxV
0805	1/10W - (1/8W)	150V	200V	2	1.25	0.4	0.4	0.6	10 - 2.2M $\pm$ 100ppm/°C	ERJ-6ENfxxxxV
1206	1/8W - (1/4W)	200V	400V	3.2	1.6	0.5	0.5	0.6	10 - 2.2M $\pm$ 100ppm/°C	ERJ-8ENfxxxxV

### Case Size 0603 (ERJ-3EKfxxxxV Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
921184	10 $\Omega$	863666	464 $\Omega$	863842	5.23k $\Omega$	863738	47k $\Omega$
862840	22.1 $\Omega$	863691	470 $\Omega$	863973	5.76k $\Omega$	921483	47.5k $\Omega$
863287	30.1 $\Omega$	863771	499 $\Omega$	864010	7.15k $\Omega$	921512	49.9k $\Omega$
863501	37.4 $\Omega$	863990	619 $\Omega$	864036	7.5k $\Omega$	863922	56.2k $\Omega$
921547	49.9 $\Omega$	921096	1k $\Omega$	921125	10k $\Omega$	864028	71.5k $\Omega$
863893	54.9 $\Omega$	862410	1.1k $\Omega$	862381	10.2k $\Omega$	864052	97.6k $\Omega$
921571	75 $\Omega$	862663	1.87k $\Omega$	862487	13.3k $\Omega$	921150	100k $\Omega$
864044	90.9 $\Omega$	921272	2k $\Omega$	921248	15k $\Omega$	862452	110k $\Omega$
921037	100 $\Omega$	862962	2.43k $\Omega$	862559	15.4k $\Omega$	862698	187k $\Omega$
921213	150 $\Omega$	863041	2.49k $\Omega$	862583	17.4k $\Omega$	863113	249k $\Omega$
862532	154 $\Omega$	863172	2.94k $\Omega$	921301	20k $\Omega$	863201	294k $\Omega$
862621	178 $\Omega$	863367	3.24k $\Omega$	862938	23.7k $\Omega$	863252	301k $\Omega$
862743	200 $\Omega$	863471	3.48k $\Omega$	863017	24.3k $\Omega$	863439	332k $\Omega$
862815	221 $\Omega$	863543	3.92k $\Omega$	863084	24.9k $\Omega$	863615	392k $\Omega$
862882	237 $\Omega$	921416	4.02k $\Omega$	863130	27.4k $\Omega$	863615	392k $\Omega$
921387	249 $\Omega$	921441	4.75k $\Omega$	863324	31.6k $\Omega$	862330	1M $\Omega$
863391	332 $\Omega$	863818	5.11k $\Omega$	863586	39.2k $\Omega$		

### Case Size 0805 (ERJ-6ENfxxxxV Series)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
922128	10 $\Omega$	864538	750 $\Omega$	864482	4.75k $\Omega$	922216	22.1k $\Omega$
864351	18.2 $\Omega$	864546	825 $\Omega$	922259	4.99k $\Omega$	864386	24.9k $\Omega$
922283	49.9 $\Omega$	922005	1k $\Omega$	864491	5.11k $\Omega$	864423	33.2k $\Omega$
864503	56.2 $\Omega$	864319	1.2k $\Omega$	864520	6.81k $\Omega$	922064	100k $\Omega$
864298	100 $\Omega$	922152	2k $\Omega$	864554	9.09k $\Omega$	864378	221k $\Omega$
864335	150 $\Omega$	864360	2.21k $\Omega$	922030	10k $\Omega$	864431	332k $\Omega$
864415	332 $\Omega$	864394	2.94k $\Omega$	864327	14k $\Omega$	864440	357k $\Omega$
864458	392 $\Omega$	864407	3.01k $\Omega$	864343	15k $\Omega$	922099	1M $\Omega$
864474	464 $\Omega$	864466	4.53k $\Omega$	922187	20k $\Omega$	864301	1.1M $\Omega$
864511	681 $\Omega$						



### 10 Series Current Sense Axial-Lead Wire Element Resistor

- Ideal for current sensing applications
- Terminals: solder plated copper or copper clad steel
- Derating: linearly from 100% @ 25°C to 0% @ 275°C
- Encapsulation: silicon molding compound
- Power rating: based on 25°C free air rating
- Overload: 5 x rated wattage for 5 seconds
- Dielectric withstanding volt.: 1000V<sub>RMS</sub>
- 2W, 2 terminal, 1% tolerance
- Temp. range: -55°C to 275°C
- Insulation resistance: 1000M $\Omega$
- Thermal EMF:  $\pm$ 2 $\mu$ V/°C

Part No.	Product No.	Ohms	1	10	100
619516	12FR025R	0.025 $\Omega$	\$1.55	\$1.48	\$1.42

### Mounting Brackets

- Fits inside cores of 200, 210, & 270 type resistors
- Steel plated
- For 8 & 12 Watt

Part No.	Product No.	Description	1	10	100
619575	5-100	Slotted	\$29.99	\$28.95	\$27.49



- Operating temp.: -55°C to 125°C

NEW

### 5% Tolerance, $\pm$ 200ppm/°C

Part No.	Product No.	No. of Resistors	Value ( $\Omega$ )	Pricing	
				10	100
774760	CR0402-JW-103GLF R	0402	10K	\$ .020	\$ .015
775527	CR0805-JW-103ELF R	0805	10K	.020	.015

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

## Power Resistors

### 40 Series OHMICONE®, Silicone-Ceramic Conformal Axial-Lead Wire Wound Resistors

- Core: ceramic
- All welded construction
- Stability under high-temperature conditions
- Characterized by their low temperature coefficient & resistance shock
- Applications: commercial, industrial & communication
- Coating: conformal silicone ceramic
- Terminals: solder coated, copper clad
- Derating: linearly from 100% @ 25°C to 0% @ 275°C
- Power rating: based on 25°C free air rating
- Overload: 5 x rated for under 5W; 10 x rated for 5W and over (for 5 seconds)
- Temperature coefficient: under 1 $\Omega$  =  $\pm$ 90ppm/°C; over 10 $\Omega$  =  $\pm$ 20ppm/°C
- Tolerance 5%

Part No.	Product No.	Ohms	1	10	100
619567	43JR10	0.1 $\Omega$ /3W	\$1.69	\$1.59	\$1.51

## Chip Resistors

### 1% Tolerance $\pm$ 100ppm/°C

Part No.	Product No.	No. of Resistor	Value ( $\Omega$ )	Pricing	
				10	100
774516	CR0402-FX-10R0GLF R	0402	10	\$ .017	\$ .014
774508	CR0402-FX-1000GLF R	0402	100	.045	.04
775084	CR0603-FX-75R0ELF R	0603	75	.01	.009
775404	CR0805-FX-103ELF R	0805	10K	.013	.012
775623	CR1206-FX-1241ELF R	1206	1.24K	.015	.014
775789	CR1206-FX-3010ELF R	1206	30.1	.015	.014
775973	CR1206-FX-6810ELF R	1206	68.1	.015	.014

Minimum order 10 pieces



## 1/5-Watt 16mm Linear Taper, Single Detent

- Shaft length: 0.335" • Center detent
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.55	\$1.30	\$1.20	\$1.08

Part No.	Product No.	Ohms
286353	RV16A-10-15R1-B1K-OC	1k
286388	RV16A-10-15R1-B10K-OC	10k



## 1/4-Watt 24mm Audio Taper (±20%)

- Shaft length: 0.335"
- Shaft dia.: 0.250"
- Maximum voltage: 250V
- Terminal type: solder lugs
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC



Qty.	1	10	100	500
Price	\$1.18	\$0.95	\$0.86	\$0.81

Part No.	Product No.	Ohms
255418	RV24A-10-15R1-A5K	5k
255426	RV24A-10-15R1-A10K	10k
255442	RV24A-10-15R1-A100K	100k
255451	RV24A-10-15R1-A500K	500k



## 1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.335"
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Maximum voltage: 500V
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



Qty.	1	10	100	500
Price	\$2.49	\$2.08	\$1.90	\$1.71

Part No.	Product No.	Ohms
263792	RV24A01-10-15R1-B10K	10k
263813	RV24A01-10-15R1-B50K	50k



## 1/5-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.374"
- Total rotation angle: 270° (±5°)
- Rotation life: 100,000 cycles
- Switch life: 10,000 times
- Rated volt.: 200V • Shaft dia.: 0.250"
- Insulation resistance: >100MΩ @ 500VDC
- Terminal type: PC terminal (vertical; back)
- Switch contact resistance: <100mΩ
- Switch rating: 250VAC 10A



Qty.	1	10	100	500
Price	\$2.39	\$1.98	\$1.80	\$1.63

Part No.	Product No.	Ohms
286767	RV16C-40-16F1-B5K	5k



## 1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key, Non-slotted shaft end
- Mounting hole: 0.3125"
- Maximum panel thickness: 0.1875"
- Shaft diameter: 0.25" • Shaft length: 0.50"



Includes: Mounting hardware

Qty.	1	10	100	500
Price	\$0.99	\$0.79	\$0.65	\$0.55

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
29050	P1K	1k	29103	P100K	100k
29197	P5K	5k	29066	P1MEG	1M
29082	P10K	10k			



## 1/5-Watt 16mm Linear Taper

- Shaft length: 0.335"
- Shaft diameter: 0.250"
- Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Rated voltage: 200V
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.38	\$1.20	\$1.05	\$0.96

Part No.	Product No.	Ohms
286249	RV16A-10-15R1-B1K	1k
286265	RV16A-10-15R1-B5K	5k
286273	RV16A-10-15R1-B10K	10k
286302	RV16A-10-15R1-B15K	100k
286337	RV16A-10-15R1-B1M	1M



## 1/8-Watt 16mm Linear Taper

- Shaft length: 0.531" • Rated volt.: 200V
- Shaft diameter: 0.250"
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Tolerance: <1MΩ (±20%); 1MΩ (±30%)
- Dielectric strength: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.34	\$1.13	\$1.02	\$0.83

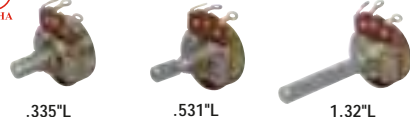
Part No.	Product No.	Ohms
286206	RV16A-10-20R1-B10K	10k

## Free Technical Support

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## 1/2-Watt 24mm Linear Taper (±20%)



- Maximum voltage: 500V
- Rotational angle: 300° (±5°) • Solder lugs
- Withstanding voltage for 1 minute: 500VAC

Part Number	RV24A-10-15R1-Bxxx	RV24A-10-20K-Bxxx	RV24A-10-40R1-Bxxx
Shaft Length	0.335"L	0.531"L	1.32"L
1 pc.	\$1.19	\$1.89	\$1.15
10 pcs.	\$0.91	\$1.43	\$0.95
100 pcs.	\$0.83	\$1.31	\$0.86
500 pcs.	\$0.80	\$0.19	\$0.79

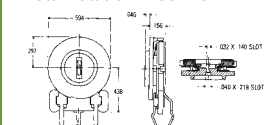
To order, replace "xxx" in the Part No. with the value to the right (e.g. - order RV24A-10-20K-B503 for a 50kΩ Alpha with 0.531"L Shaft).

500Ω — 501	50kΩ — 503
1kΩ — 102	100kΩ — 104
2kΩ — 202	250kΩ — 254
2.5kΩ — 252	500kΩ — 504
5kΩ — 502	1MΩ — 105
10kΩ — 103	2MΩ — 205
25kΩ — 253	5MΩ — 505



## 1/4-Watt Miniature Linear (±20%)

- 15mm thick • Volt. rating: 350VDC
- Power rating: below 5kΩ - 1/4 watt @ 40°C; 5kΩ & above - 1/4 watt @ 55°C
- Total rotation: 260° ±5°



Cross Ref. Chart	Equivalent to:
CTS	X201R
Bourns	3355X
PIHER	PT15

Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$0.45	\$0.39	\$0.35	\$0.29

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
94692	X201R1K	1k	94722	X201R50K	50k
94705	X201R5K	5k	94731	X201R100K	100k
94714	X201R10K	10k			



## 2-Watt 10-Turn Wirewound (±5%)

- Insulation resistance: (500VDC) 1000MΩ min.
- Absolute min. resistance: 1Ω or 0.1% maximum
- Power rating: 3540 Series: 2W @ 70°C; 3590 Series: 2W @ 40°C
- Operating temp. range: +1°C to +125°C



771147

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### 3540S -1 Series

Part No.	Product No.	Ohms	1	10	50
183548	3540S-1-502	5k	\$13.25	\$12.14	\$11.24
183521	3540S-1-103	10k	\$12.99	12.79	12.59

### 3590S -1 Series, Plastic Bushing

Part No.	Product No.	Ohms	1	5	100
771147	3590S-1-203	20k	\$9.85	\$9.24	\$8.63

### 3590S -2 Series, Metal Bushing

Part No.	Product No.	Ohms	1	5	100
855818	3590S-2-502	5k	\$9.85	\$9.24	\$8.63
771155	3590S-2-103	10k	9.85	9.24	8.63
771163	3590S-2-203	20k	9.85	9.24	8.63



## 5-Watt Linear Taper Wirewound (±20%)

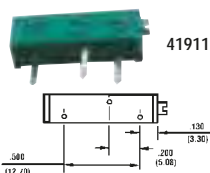
- Temp. range: -10°C to 70°C
- Shaft diameter: 0.23" (6mm)
- Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"
- Shaft length: 0.67", except P/N 140522 (0.25")



Includes: Mounting hardware

Part No.	Cross Ref. No.	Ohms	1	10	50	100
140514	PW5B100	100	\$2.79	\$2.51	\$2.00	\$1.51

## 3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)



Cross Ref. Chart

Equivalent to:		
Allen Bradley	94P	
Beckman	89PR	
Bourns	3006P	
Litton	6034Y	
Mecopac	8034	
Murata	2101P	
Spectrol	43P	
VRN	961-20	
Weston	830P	

- PC pins: 0.100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

Qty.	1	10	100	500
Price	\$1.05	\$0.99	\$0.89	\$0.75

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
41785	43P1K	1k	41873	43P20K	20k
41865	43P2K	2k	41911	43P50K	50k
41890	43P5K	5k	41849	43P100K	100k
41822	43P10K	10k	41806	43P1MEG	1M

## 1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PC pins: 0.100" grid (2.54mm)
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants
- Pin spacing: 0.1" (P/N 43060: 0.2")



42964

Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mecopac	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

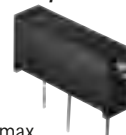
Qty.	1	10	100	500
Price	\$0.78	\$0.69	\$0.61	\$0.443

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
43123	63P500	500	43107	63P50K	50k
42964	63P1K	1k	43027	63P100K	100k
43043	63P2K	2k	43060	63P300K	300k
43078	63P5K	5k	63212	63P500K	500k
43001	63P10K	10k	42981	63P1MEG	1M
43051	63P20K	20k			

## 3/4-W, 3/4" Rectangular, 15-Turn Sealed Cermet Trimming Side Adjust (±10%)

### 3009P Series - 3/4W, Y-layout solder pin

- Resistance tolerance: ±10%
- Insulation resistance: 100MΩ min. (500VDC)
- Contact resistance variation: 1% or 1Ω max.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.75W @ 70°C (400V max.)



Part No.	Product No.	Ohms	1	5	100
768870	3009P-1-203	20k	\$2.75	\$2.19	\$1.78

## 12mm Incremental Encoder

- Compact design, long life and high reliability
- Applications: audio-visual equipment, consumer electric appliances, radios, musical instrumentations, communications equipment
- Output: 2-bit gray code
- Closed circuit resistance: 3Ω max.
- Contact rating: 1mA @ 5VDC
- Insulation resistance: 10MΩ @ 250VDC
- Dielectric withstanding voltage: 50VAC min.
- RPM (operating): 100 max.
- Switch type: contact push ON momentary SPST
- PC horizontal/rear facing, 24 detents, 25mm shaft length, insulated shaft, no switch, 24 pulses per 360° rotation

NEW

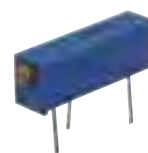


Part No.	Product No.	1	10	100
776386	PEC12-4225F-N0024	\$0.92	\$0.71	\$0.64

## 3/4-W, 3/4" Rectangular, Multi-Turn Cermet Trimming Side Adjustment (±10%)

### 3006P Series - 3/4W, Y Layout Solder Pins

- Resistance tolerance: ±10%
- 15 turns nominal
- Insulation resistance: (500VDC) 1,000MΩ min.
- Contact resistance variation: 1% or 1Ω max.
- Absolute min. resistance: 1% or 2Ω max.
- Power rating: 0.75W @ 70°C (400V max.)



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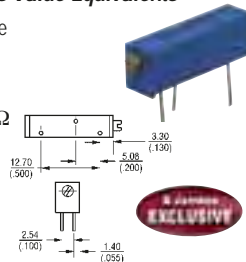
Qty.	1	10	50	100
Price	\$1.55	\$1.36	\$1.26	\$1.09

Part No.	Product No.	Ohms
768781	3006P-1-200	20
768811	3006P-1-500	50
695990	3006P-1-101	100
696044	3006P-1-201	200
696087	3006P-1-501	500
768829	3006P-1-501LF	500
696001	3006P-1-102	1k
768765	3006P-1-102LF	1k
696052	3006P-1-202	2k
768790	3006P-1-202LF	2k
696095	3006P-1-502	5k
696010	3006P-1-103	10k
768773	3006P-1-103LF	10k
696061	3006P-1-203	20k
768802	3006P-1-253	25k
696108	3006P-1-503	50k
696028	3006P-1-104	100k
696079	3006P-1-204	200k
696116	3006P-1-504	500k
696036	3006P-1-105	1M

## 3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometer Side Adjustment (±10%)

### Bourns 3006P Series Value Equivalents

- Low PC board profile
- Temperature range: -55°C to 125°C
- Absolute minimum resistance: 1% or 2Ω
- Contact resistance variation: 1% or 1Ω maximum
- Power rating: 0.75W @ 70°C (400V maximum)



Qty.	1	10	50	100
Price	\$1.46	\$1.41	\$1.21	\$0.98

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
241234	3006P-101	100	241307	3006P-203	20k
241242	3006P-201	200	241314	3006P-253	25k
241252	3006P-501	500	241323	3006P-503	50k
241269	3006P-102	1k	241332	3006P-104	100k
241278	3006P-202	2k	241350	3006P-204	200k
241286	3006P-502	5k	241365	3006P-504	500k
241294	3006P-103	10k	241374	3006P-105	1M



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For additional Wirewound, Cermet, Linear Taper Potentiometers, visit our website today!

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

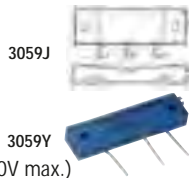
# Multi-Turn Trimming Potentiometers

Color Code Legend  
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## 1-W, 1 1/4" Rectangular, Multi-Turn Cermet Trimmer Side Adjustment ( $\pm 10\%$ )

- Resistance tolerance:  $\pm 10\%$
- 22 turns nominal
- Insulation resistance (500VDC): 1,000M $\Omega$  min.
- Contact resistance variation:  $\pm 1\%$  or 1 $\Omega$  max.
- Power rating: 1W @ 70°C (400V max.)
- Temperature range: -55°C to 150°C



### 3059J Series — Y-Layout Hooked Pins

Part No.	Product No.	Ohms	1	10	100
768968	3059J-1-102 $\clubsuit$	1k ...	\$24.71	\$21.62	\$20.35
768976	3059J-1-103M $\clubsuit$	10k ...	25.09	22.83	22.06

\* Panel mount

### 3059Y Series — Y-Layout Pins

Part No.	Product No.	Ohms	1	10	100
768984	3059Y-1-103 $\clubsuit$	10k ...	\$5.09	\$4.90	\$4.07
768992	3059Y-1-104 $\clubsuit$	100k ...	5.09	4.90	4.07

## 1/4-W, 4mm Square SMD, Multi-Turn Sealed Cermet Trimmer Top Adjust ( $\pm 10\%$ )

### 3214W Series

- Resistance tolerance:  $\pm 10\%$
- 15 turns nominal
- Insulation resistance: (500VDC) 100M $\Omega$  min.
- Contact resistance variation: 1% or 3 $\Omega$  max.
- Absolute min. resistance: 1% or 2 $\Omega$  max.
- Power rating: 0.25W @ 85°C (300V max.)



Part No.	Product No.	Ohms	Pricing
696212	3214W-1-203E $\clubsuit$	20k .....	★ Call Call

★ Please call or visit our website for minimum order quantity and pricing.

## 1/4-Watt, 1/4" Multi-Turn, Cermet Trimming Potentiometer ( $\pm 10\%$ )

- Resistance tolerance:  $\pm 10\%$
- Y-layout solder pins
- Sealed cermet
- 12 turns nominal
- Insulation res. (500VDC): 1,000M $\Omega$
- Contact resistance variation: 3% or 3 $\Omega$
- Power rating: 0.25W @ 85°C



### 3262W Series — Top Adjust. (rectangular)

Part No.	Product No.	Ohms	1	10	100
769063	3262W-1-502 $\clubsuit$	5k .....	\$10.19	\$9.27	\$8.96
696335	3262W-1-103 $\clubsuit$	10k .....	14.25	10.96	8.96
769055	3262W-1-203 $\clubsuit$	20k .....	10.19	9.27	8.96

## Pocket Trimmer Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2" L



Part No.	Description	1	10	100
153315	Trimmer tool $\clubsuit$ .....	\$1.35	\$1.22	\$1.09
776108	Adjustment tool .....	1.49	1.37	1.26

$\clubsuit$  This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

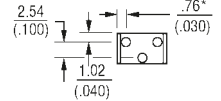
$\clubsuit$  RoHS compliant product

$\clubsuit$  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## 1/4-Watt, 1/4" Square Trimming Potentiometers, Top Adjustment ( $\pm 10\%$ )

### Bourns 3266W Series Value Equivalents

- Resistance tolerance:  $\pm 10\%$
- 12 turns nominal
- Insulation resistance: (500VDC) 1,000M $\Omega$  min.
- Contact resistance variation: 3% or 3 $\Omega$  max. (whichever is greater)
- Absolute min. resistance: 1% or 2 $\Omega$  max. (whichever is greater)
- Power rating: 0.25W @ 70°C (300V max.)



Qty.	1	10	50	100
Price	\$2.29	\$1.99	\$1.93	\$1.83

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254626	3266W-201 $\clubsuit$	200	254677	3266W-103 $\clubsuit$	10k
254633	3266W-501 $\clubsuit$	500	254684	3266W-203 $\clubsuit$	20k
254642	3266W-102 $\clubsuit$	1k	254706	3266W-503 $\clubsuit$	50k
254651	3266W-202 $\clubsuit$	2k	254714	3266W-104 $\clubsuit$	100k
254669	3266W-502 $\clubsuit$	5k	254749	3266W-105 $\clubsuit$	1M

## 1/4" Square, Multi-Turn Trimming Side Adjustment ( $\pm 10\%$ )

- 1/4 Watt
- Resistance tolerance:  $\pm 10\%$
- Y-layout solder pins
- Sealed cermet
- 12 turns nominal
- Insulation resistance (500VDC): 1,000M $\Omega$  min.
- Contact resistance variation: 3% or 3 $\Omega$  max.
- Absolute min. resistance: 1% or 2 $\Omega$  max.
- Power rating: 0.25W @ 70°C (300V max.)



### 3266X Series

Part No.	Product No.	Ohms	1	10	100
769194	3266X-1-101 $\clubsuit$	100 ..	\$2.89	\$2.36	\$2.24
769207	3266X-1-201 $\clubsuit$	200 ....	2.85	2.34	2.24
696503	3266X-1-202 $\clubsuit$	2k .....	2.85	2.34	2.24
696538	3266X-1-502 $\clubsuit$	5k .....	2.85	2.34	2.24
696482	3266X-1-103	10k ....	2.79	2.34	2.24
696511	3266X-1-203	20k ....	3.35	2.73	2.32
769215	3266X-1-203LF $\clubsuit$	20k ....	2.85	2.34	2.24
696546	3266X-1-503 $\clubsuit$	50k ....	2.85	2.34	2.24

### 3266W Series

Part No.	Product No.	Ohms	1	10	100
696343	3266W-1-101 $\clubsuit$	100 ..	\$2.85	\$2.45	\$2.34
696394	3266W-1-201 $\clubsuit$	200 ....	2.85	2.45	2.34
696431	3266W-1-501 $\clubsuit$	500 ....	2.85	2.34	2.24
769178	3266W-1-501LF $\clubsuit$	500 .....	★	Call	Call
696351	3266W-1-102	1k .....	2.85	2.45	2.34
696407	3266W-1-202 $\clubsuit$	2k .....	2.85	2.45	2.34
696440	3266W-1-502 $\clubsuit$	5k .....	2.85	2.34	2.24
769186	3266W-1-502LF $\clubsuit$	5k .....	2.85	2.34	2.24
696360	3266W-1-103	10k ....	2.85	2.34	2.24
696415	3266W-1-203	20k ....	2.85	2.34	2.24
769151	3266W-1-253 $\clubsuit$	25k ....	2.85	2.34	2.24
696458	3266W-1-503 $\clubsuit$	50k ....	2.85	2.34	2.24
696378	3266W-1-104	100k ...	2.85	2.34	2.24
696466	3266W-1-504 $\clubsuit$	500k ...	2.85	2.34	2.24
696386	3266W-1-105 $\clubsuit$	1M .....	2.85	2.34	2.24

★ Please call or visit our website for minimum order quantity and pricing.

### 3266P Series

Part No.	Product No.	Ohms	1	10	100
769101	3266P-1-202 $\clubsuit$	2k ....	\$2.85	\$2.34	\$2.24
769143	3266P-1-502 $\clubsuit$	5k .....	2.85	2.34	2.24
769098	3266P-1-103	10k ....	3.19	2.79	2.63
769119	3266P-1-203 $\clubsuit$	20k ....	2.55	2.34	2.24
769127	3266P-1-203LF $\clubsuit$	20k ....	2.85	2.34	2.24
769135	3266P-1-253 $\clubsuit$	25k ....	2.85	2.34	2.24

## 1/4-Watt, 4mm Square SMD, Trimming Potentiometers ( $\pm 10\%$ )

### 3314W Series

- Top adjust. straight slot
- Adjustment angle: 210°
- Insulation resistance: (500VDC) 100M $\Omega$  min.
- End resistance: 1% or 2 $\Omega$  max.
- Power rating: 0.25W @ 70°C
- Contact resistance variation: 3% or 3 $\Omega$  max.

NEW



Part No.	Product No.	Ohms	1	10	100
854330	3314J-1-502E $\clubsuit$	5K .....	\$1.38	\$1.29	\$1.21
854284	3314G-1-103E $\clubsuit$	10K .....	1.19	1.06	1.04

## 1/4-W, 1/4" Square SMD, Multi-Turn Sealed Cermet Trimming Pot ( $\pm 10\%$ )

- 12 turns nominal
- Resistance tolerance:  $\pm 10\%$
- Insulation resistance (500VDC): 1000M $\Omega$  min.
- Contact resistance variation: 3% or 3 $\Omega$  max.
- Absolute min. resistance: 1% or 2 $\Omega$  max.
- Power rating: 0.25W @ 85°C (300V max.)



### 3269P Series — Side Adjustment

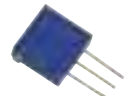
Part No.	Product No.	Ohms	1	10	50
696554	3269P-1-103 $\clubsuit$	10k .....	\$3.55	\$2.84	\$2.78

### 3269W Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	50
853484	3269W-1-201 $\clubsuit$	200 ....	\$3.49	\$2.84	\$2.78

## 1-Watt, 3/8" Square, 25-Turn Trimming Potentiometers ( $\pm 5\%$ )

- Resistance tolerance:  $\pm 5\%$
- In-line layout solder pins
- Insulation resistance (500VDC): 1,000M $\Omega$  min.
- Power rating: 1W @ 85°C
- Temperature range: -65°C to 150°C



### 3290H Series — Side Adjustment

Part No.	Product No.	Ohms	1	10	100
769231	3290H-1-102 $\clubsuit$	1k ....	\$18.89	\$17.63	\$16.36
769240	3290H-1-103 $\clubsuit$	10k ....	27.09	21.23	17.04

### 3290W Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	100
769266	3290W-1-101 $\clubsuit$	100 ....	\$27.09	\$21.23	\$17.04



## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### Bourns 3329P




#### Series Value Equivalents

- TO-5 grid
- Top adjustment
- Terminals: solderable pins
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C





Qty.	1	10	50	100
Price	\$1.69	\$1.53	\$1.29	\$1.21

Part No.	Cross Ref No.	Ohms
254512	3329P-502 	5k
254530	3329P-103 	10k
254538	3329P-203 	20k



Part No.	Cross Ref No.	Ohms
254562	3329P-104 	100k
254597	3329P-105 	1M














## 1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometers (±10%)

- Resistance tolerance: ±10%
- 25 turns nominal
- Power rating: 0.5W @ 70°C (300V max.)
- Temperature range: -55°C to 150°C
- Absolute min. resistance: 1% or 2Ω max.
- Insulation resistance (500VDC): 1,000MΩ min.

### 3296P — Side Adjust, Y-Layout Solder Pins








Part No.	Product No.	Ohms	1	10	100
853513	3296P-1-103 	10k	\$2.29	\$1.85	\$1.68
769362	3296P-1-503 	50k	\$2.19	2.03	1.69

### 3296W — Top Adjust, In-Line Solder Pins






Part No.	Product No.	Ohms	1	10	100
769371	3296W-1-100 	10	\$2.45	\$1.98	\$1.60
853732	3296W-1-500 	50	2.15	1.72	1.55
853530	3296W-1-101 	100	2.15	1.72	1.55
853636	3296W-1-201 	200	2.15	1.72	1.55
853759	3296W-1-501 	500	2.15	1.72	1.55
769469	3296W-1-501LF 	500	1.99	1.63	1.54
853556	3296W-1-102 	1k	2.15	1.72	1.55
769389	3296W-1-102LF 	1k	1.99	1.63	1.54
853652	3296W-1-202 	2k	2.15	1.72	1.55
769426	3296W-1-202LF 	2k	1.99	1.62	1.54
853775	3296W-1-502 	5k	2.05	1.83	1.74
769477	3296W-1-502LF 	5k	1.99	1.62	1.54
853572	3296W-1-103 	10k	2.05	1.83	1.74
769397	3296W-1-103LF 	10k	1.99	1.62	1.54
853679	3296W-1-203 	20k	2.15	1.72	1.55
769434	3296W-1-203LF 	20k	1.99	1.62	1.54
853791	3296W-1-503 	50k	1.99	1.62	1.54
769485	3296W-1-503LF 	50k	1.62	1.43	1.34
853599	3296W-1-104 	100k	2.15	1.72	1.55
769400	3296W-1-104LF 	100k	★	Call	Call
853695	3296W-1-204 	200k	2.15	1.75	1.55
853812	3296W-1-504 	500k	2.15	1.72	1.55
769493	3296W-1-504LF 	500k	★	Call	Call
853610	3296W-1-105 	1M	2.15	1.72	1.55
769506	3296W-1-505 	5M	2.39	1.92	1.55

★ Please call or visit our website for minimum order quantity and pricing.

### 3296Z — Side Adjust, Y-Layout Solder Pins

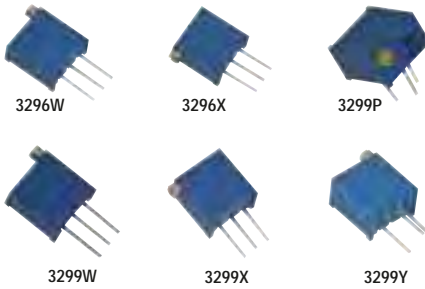
Part No.	Product No.	Ohms	1	10	100
854049	3296Z-1-102 	1k	\$2.29	\$1.85	\$1.77
854081	3296Z-1-502 	5k	2.29	1.85	1.77
854065	3296Z-1-103 	10k	2.29	1.85	1.77
769590	3296Z-1-103LF 	10k	2.15	1.75	1.66
769629	3296Z-1-203 	20k	2.19	1.77	1.69
769602	3296Z-1-104 	100k	2.19	1.77	1.69
769645	3296Z-1-504 	500k	2.29	1.85	1.77

### 3296X — Side Adjust, In-Line Solder Pins










Part No.	Product No.	Ohms	1	10	100
853839	3296X-1-101 	100	\$2.15	\$1.72	\$1.55
853960	3296X-1-501 	500	2.29	1.90	1.55
853855	3296X-1-102 	1k	2.15	1.72	1.55
853935	3296X-1-202 	2k	2.15	1.72	1.55
769549	3296X-1-202LF 	2k	1.99	1.62	1.54

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

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
### 3296X — Side Adjust, In-Line Solder Pins (cont.)

Part No.	Product No.	Ohms	1	10	100
853986	3296X-1-502 	5k	\$2.15	\$1.72	\$1.55
853871	3296X-1-103 	10k	2.15	1.72	1.55
769522	3296X-1-103LF 	10k	1.99	1.62	1.54
853951	3296X-1-203 	20k	2.15	1.72	1.55
854006	3296X-1-503 	50k	2.15	1.72	1.55
853898	3296X-1-104 	100k	2.15	1.72	1.55
769557	3296X-1-204 	200k	2.15	1.72	1.55
854022	3296X-1-504 	500k	2.15	1.72	1.55
853919	3296X-1-105 	1M	2.15	1.72	1.55

### 3296Y — Top Adjust, Y-Layout Solder Pins





Part No.	Product No.	Ohms	1	10	50
240389	3296Y-1-501	500	\$2.49	\$2.26	\$1.94
1157000	3296Y-1-501LF 	500	1.65	1.42	1.34
240397	3296Y-1-102	1k	2.19	1.98	1.74
1156947	3296Y-1-102LF 	1k	1.65	1.42	1.34
240400	3296Y-1-202 	2k	2.39	2.22	2.00
1156971	3296Y-1-202LF 	2k	1.65	1.42	1.34
240418	3296Y-1-502 	5k	2.39	2.22	2.00
769581	3296Y-1-502LF 	5k	1.99	1.62	1.54
240426	3296Y-1-103	10k	1.99	1.85	1.66
1156955	3296Y-1-103LF 	10k	1.65	1.42	1.34
240434	3296Y-1-203 	20k	1.99	1.85	1.66
1156998	3296Y-1-203LF 	20k	1.65	1.42	1.34
240451	3296Y-1-503	50k	2.39	2.22	2.00
1157018	3296Y-1-503LF 	50k	1.65	1.42	1.34
240469	3296Y-1-104	100k	1.99	1.85	1.66
1156963	3296Y-1-104LF 	100k	1.65	1.42	1.34
769573	3296Y-1-204 	200k	2.15	1.72	1.55
240493	3296Y-1-105 	1M	2.19	1.98	1.74

### 3299P — Side Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
769670	3299P-1-501 	500	\$2.75	\$2.28	\$1.97
769653	3299P-1-102 	1k	2.75	2.23	1.97
854129	3299P-1-202 	2k	2.75	2.23	1.97
854145	3299P-1-502 	5k	2.75	2.23	1.97
854102	3299P-1-103 	10k	2.75	2.23	1.97
769688	3299P-1-503	50k	2.75	2.23	1.97
769661	3299P-1-104 	100k	★	Call	Call

★ Please call or visit our website for minimum order quantity and pricing.

### 3299W — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	50
238553	3299W-1-100 	10	\$2.39	\$2.25	\$1.99
1157131	3299W-1-101LF 	100	2.65	2.37	1.79
238596	3299W-1-201 	200	2.39	2.25	1.99
1157173	3299W-1-201LF 	200	2.65	2.37	1.79
1157229	3299W-1-501LF 	500	2.65	2.37	1.79
183556	3299W-1-102 	1k	2.39	2.25	1.99
1157149	3299W-1-102LF 	1k	2.65	2.37	1.79
238617	3299W-1-202 	2k	2.39	2.25	1.99
1157181	3299W-1-202LF 	2k	2.65	2.37	1.79
238625	3299W-1-502	5k	2.39	2.25	1.99
769725	3299W-1-502LF 	5k	2.59	2.08	1.83
183564	3299W-1-103	10k	2.39	2.25	1.99
769696	3299W-1-103LF 	10k	2.59	2.08	1.83
238633	3299W-1-203 	20k	2.39	2.25	1.99
769717	3299W-1-203LF 	20k	2.59	2.08	1.83
1157202	3299W-1-253LF 	25k	2.65	2.37	1.79
238650	3299W-1-503	50k	2.39	2.25	1.99
1157237	3299W-1-503LF 	50k	2.65	2.37	1.79
183572	3299W-1-104	100k	2.89	2.68	2.23
769709	3299W-1-104LF 	100k	2.59	2.59	2.08
854161	3299W-1-204 	200k	2.59	2.07	1.83
1157190	3299W-1-204LF 	200k	2.65	2.37	1.79
238676	3299W-1-504 	500k	2.65	2.37	2.10
1157245	3299W-1-504LF 	500k	2.65	2.37	1.79
238684	3299W-1-105	1M	2.95	2.67	2.32
1157165	3299W-1-105LF 	1M	2.65	2.28	2.14

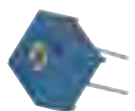
### 3299X — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
769733	3299X-1-101♣	100	..... \$2.59	\$2.08	\$1.83
769784	3299X-1-501♣	500	..... 2.59	2.08	1.83
854188	3299X-1-102♣	1k	..... 2.59	2.08	1.83
854225	3299X-1-202♣	2k	..... 2.59	2.08	1.83
854268	3299X-1-502♣	5k	..... 2.59	2.08	1.83
854209	3299X-1-103♣	10k	..... 2.59	2.08	1.83
769792	3299X-1-503♣	50k	..... 2.59	2.08	1.83
769741	3299X-1-104♣	100k	..... 2.59	2.08	1.83
769776	3299X-1-204♣	200k	..... 2.85	2.23	1.83
769750	3299X-1-105♣	1M	..... 2.59	2.08	1.83

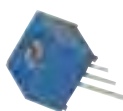


## 1/2-Watt, 1/4" Square, Trimming Potentiometer (±10%)

- Resistance tolerance: ±10%
- Absolute min. res.: 1% or 2Ω
- Adjustment angle: 240° nominal
- Insulation res. (500VDC): 1,000MΩ min.
- Power rating: 0.5W @ 70°C
- Temperature range: -55°C to 125°C



3362P



3362U



3362W

### 3362H Series — Top Adjustment, Y-Layout

Part No.	Product No.	Ohms	1	10	100
770363	3362H-1-102LF	1k	\$.78	\$.67	\$.60
770371	3362H-1-103	10k	.78	.65	.59
770380	3362H-1-203	20k	.78	.67	.60

### 3362M Series — Side Adjust, In-Line

Part No.	Product No.	Ohms	1	10	100
770398	3362M-1-103LF	10k	\$.78	\$.67	\$.60
770401	3362M-1-504	500k	.80	.67	.60

### 3362P Series — Top Adjust, Y-Layout

Part No.	Product No.	Ohms	1	10	100
770419	3362P-1-101LF	100	\$.80	\$.67	\$.60
854663	3362P-1-102	1k	.81	.66	.59
854698	3362P-1-202	2k	.78	.65	.59
770435	3362P-1-203	20k	★	Call	Call
854727	3362P-1-503	50k	.80	.67	.60
770427	3362P-1-104	100k	.78	.65	.59
770443	3362P-1-504	500k	.80	.71	.70

★ Please call or visit our website for minimum order quantity and pricing.

### 3362R Series — Top Adjust, Rev. Y-Layout

Part No.	Product No.	Ohms	1	10	100
770451	3362R-1-103	10k	\$.80	\$.68	\$.64

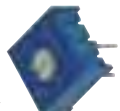


## 1/2-Watt, 3/8" Square, Trimming Potentiometer (±10%)

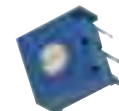
- Resistance tolerance: ±10%
- Insulation resistance (500VDC): 1,000MΩ min.
- Absolute min. resistance: 2Ω max.
- Adjustment angle: 280° nominal
- Power rating: 0.5W @ 85°C (300V max.)
- Temperature range: -55°C to 125°C



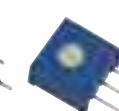
3386H



3386P



3386R



3386W

### 3386B — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
854794	3386B-1-501	500	\$1.08	\$.99	\$.90
770620	3386B-1-102	1k	1.08	.99	.90
854786	3386B-1-103	10k	1.49	1.42	1.35

### 3386F — Top Adjust, Y-Layout Solder Pins

Part No.	Product No.	Ohms	1	10	100
770700	3386F-1-500	50	\$1.07	\$.93	\$.81
770654	3386F-1-101	100	1.06	.94	.81
854954	3386F-1-201	200	1.06	.93	.81
855041	3386F-1-501	500	1.06	.93	.81
854823	3386F-1-102	1k	1.06	.93	.81
854989	3386F-1-202	2k	1.06	.93	.81
855076	3386F-1-502	5k	1.06	.93	.81
770718	3386F-1-502LF	5k	1.08	.96	.81
854858	3386F-1-103	10k	1.09	.95	.82
770662	3386F-1-103LF	10k	1.07	.96	.81
855017	3386F-1-203	20k	1.06	.93	.81
855105	3386F-1-503	50k	1.06	.93	.81
854920	3386F-1-104	100k	1.06	.93	.81
770697	3386F-1-204	200k	1.06	.93	.81
770726	3386F-1-504	500k	1.08	.96	.81
770689	3386F-1-105	1M	1.06	.94	.81

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▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

### 3362S Series — Side Adjustment, Y-Layout

Part No.	Product No.	Ohms	1	10	100
770478	3362S-1-102	1k	\$.80	\$.66	\$.60
770486	3362S-1-103	10k	.78	.65	.59
770494	3362S-1-103LF	10k	.80	.66	.60

### 3362U Series — Top Adjust, In-Line

Part No.	Product No.	Ohms	1	10	100
770523	3362U-1-102LF	1k	\$.78	\$.66	\$.60

### 3362W Series — Side Adjust, Rev. Y-Layout

Part No.	Product No.	Ohms	1	10	100
770558	3362W-1-101	100	\$.78	\$.65	\$.59
770582	3362W-1-202	2k	.80	.68	.64
770566	3362W-1-103	10k	.78	.65	.59
770574	3362W-1-103LF	10k	.80	.66	.60
770591	3362W-1-203	20k	.78	.65	.59

### 3362X Series — Side Adjust, Rev. Y-Layout

Part No.	Product No.	Ohms	1	10	100
770603	3362X-1-202LF	2k	\$.78	\$.68	\$.64

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## 1/2-Watt, 5/16" Round Trimming Pots (±10%)

- Resistance tolerance: ±10%
- 4 turns nominal
- Absolute min. resistance: 1% or 2Ω max.
- Insulation res. (500VDC): 1,000MΩ min.
- Power rating: 0.5W @ 80°C
- Temperature range: -55°C to 150°C



3339P



3339W

### 3339H Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	100
770187	3339H-1-103	10k	\$5.15	\$3.80	\$3.31

### 3339P Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	100
770259	3339P-1-501	500	\$5.15	\$3.80	\$3.31
770208	3339P-1-102	1k	4.45	3.88	3.31
770224	3339P-1-202	2k	4.45	3.99	3.31
770267	3339P-1-502	5k	3.85	3.59	3.31
854612	3339P-1-103	10k	4.45	3.80	3.31
770275	3339P-1-503	50k	4.45	3.88	3.31
770216	3339P-1-104	100k	4.96	4.23	3.31

### 3339W Series — Side Adjustment

Part No.	Product No.	Ohms	1	10	100
770283	3339W-1-103	10k	\$6.79	\$6.05	\$4.76
770291	3339W-1-103LF	10k	6.79	6.05	4.76

### 3386P — Top Adjust, Y-Layout (Continued)

Part No.	Product No.	Ohms	1	10	100
855543	3386P-1-503	50k	\$1.06	\$.94	\$.81
770873	3386P-1-503T	50k	1.79	1.36	1.30
855244	3386P-1-104	100k	1.09	.95	.82
770822	3386P-1-104T	100k	1.99	1.54	1.30
855421	3386P-1-204	200k	1.06	.94	.81
770857	3386P-1-254	250k	1.07	.93	.81
855578	3386P-1-504	500k	1.09	.95	.82
855287	3386P-1-105	1M	1.07	.93	.81
770849	3386P-1-205	2M	1.25	.97	.81

\* Knob option

### 3386R — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
770890	3386R-1-103	10k	\$1.17	\$1.04	\$.90

### 3386S — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
770911	3386S-1-103	10k	\$1.17	\$1.04	\$.90

### 3386T — Top Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
770937	3386T-1-102	1k	\$1.08	\$.99	\$.90

### 3386W — Side Adjust, In-Line Solder Pins

Part No.	Product No.	Ohms	1	10	100
770988	3386W-1-501	500	\$1.06	\$.94	\$.81
855607	3386W-1-102	1k	1.06	.94	.81
770961	3386W-1-202	2k	1.06	.94	.81
770996	3386W-1-502	5k	1.06	.93	.81
855631	3386W-1-103	10k	1.25	.99	.81
855658	3386W-1-203	20k	1.06	.94	.81
771008	3386W-1-503	50k	1.06	.94	.81
770953	3386W-1-104	100k	1.06	.94	.81
771016	3386W-1-504	500k	1.06	.94	.81

\* Knob option

## 1/2-Watt, 3/8" Square, Trimming Potentiometers (±10%) (Cont.)

### 3386X — Side Adjust, Rev. Y-Layout Pins

Part No.	Product No.	Ohms	1	10	100
771024	3386X-1-101▲	100 ...	\$1.06	\$.94	\$.81
771075	3386X-1-501▲	500 ...	1.06	.94	.81
855682	3386X-1-102▲	1k ...	1.06	.94	.81
771041	3386X-1-202▲	2k ...	1.06	.94	.81
855797	3386X-1-502▲	5k ...	1.25	.97	.81

Part No.	Product No.	Ohms	1	10	100
855711	3386X-1-103▲	10k ...	\$1.07	\$.84	\$.81
855771	3386X-1-203▲	20k ...	1.06	.94	.81
771083	3386X-1-503▲	50k ...	1.06	.94	.81
855746	3386X-1-104▲	100k ...	1.06	.94	.81
771059	3386X-1-204▲	200k ...	1.07	.93	.81
771032	3386X-1-105▲	1M ...	1.06	.94	.81



## 1/2-W, 1/4" Round, Trimming Potentiometers (±10%)

- Resistance tolerance: ±10%
- Adjustment angle: 240° nominal
- Temperature range: -55°C to 150°C

- Absolute min. res.: 1% or 2Ω
- Power rating: 0.5W @ 80°C
- Insulation res. (500VDC): 1,000MΩ min.

3329H



For more Bourns Potentiometers visit [www.Jameco.com](http://www.Jameco.com)

### 3329H Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	100
770064	3329H-1-500LF▲	50 ...	\$2.19	\$1.92	\$1.64
770021	3329H-1-101▲	100 ...	2.19	1.92	1.64
854436	3329H-1-201▲	200 ...	2.19	1.92	1.64
854508	3329H-1-501▲	500 ...	2.19	1.92	1.64
854356	3329H-1-102▲	1k ...	2.19	1.92	1.64
854532	3329H-1-502▲	5k ...	2.19	1.92	1.64
854372	3329H-1-103▲	10k ...	2.35	2.04	1.92
854487	3329H-1-203	20k ...	2.19	1.92	1.64
770048	3329H-1-203LF▲	20k ...	2.19	1.92	1.64
854567	3329H-1-503▲	50k ...	2.19	1.92	1.64
854399	3329H-1-104▲	100k ...	2.19	1.92	1.64
770030	3329H-1-104LF▲	100k ...	2.19	1.92	1.64
854410	3329H-1-105▲	1M ...	2.19	1.92	1.64

### 3329P Series — Top Adjustment

Part No.	Product No.	Ohms	1	10	100
770099	3329P-1-500▲	50 ...	\$2.19	\$1.92	\$1.64
854583	3329P-1-202▲	2k ...	2.19	1.92	1.64
770072	3329P-1-203▲	20k ...	2.19	1.92	1.64
770101	3329P-1-503▲	50k ...	2.19	1.92	1.64
770081	3329P-1-204▲	200k ...	2.19	1.92	1.64
770110	3329P-1-504▲	500k ...	2.19	1.92	1.64

### 3329W Series — Side Adjustment

Part No.	Product No.	Ohms	1	10	100
770144	3329W-1-202▲	2k ...	\$2.55	\$2.26	\$1.97
770136	3329W-1-103▲	10k ...	2.55	2.26	1.97

### 3329X Series — Side Adjustment

Part No.	Product No.	Ohms	1	10	100
770179	3329X-1-103▲	10k ...	\$2.95	\$2.40	\$1.97

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### 3329P Series

- T0-5 grid
- Top adjustment
- Terminals: solderable pins
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C



#### Cross Ref. Chart

Equivalent to:	Equivalent to:
Beckman 82M	Murata 3321P
Bourns 3329P	Spectrol 62-3
Meccopac 8050	VRN 171
MEC 471	Weston 567

Part No.	Cross Ref No.	Ohms
95450	3329P-502	5k
96719	3329P-103	10k
95484	3329P-104	100k

Qty.	1	10	100	500
Price	\$1.89	\$1.59	\$1.29	\$1.19

## 1/2-Watt Trimming Potentiometers (±10%)

### 3362P Series — Linear Taper

- Insulation resistance: 500VDC 1,000MΩ min.
- Absolute minimum resistance: 1% or 2Ω max
- Wiper positioning: 50% nominal
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Rotational life: 200 cycles
- Contact resistance variation: 1% or 3Ω maximum



#### Cross Ref. Chart

Equivalent to:
Bourns 3362P
Copal CT-6P
Murata PVC6
Vishay 76

Qty.	1	10	100	500
Price	\$1.89	\$1.59	\$1.29	\$1.19

Part No.	Cross Ref No.	Ohms
182810	3362P-501	500
182828	3362P-502	5k
182837	3362P-103	10k
182853	3362P-105	1M

## ValuePro High-Current Toroid Inductors

- DC - DC converter, EMI filter applications
- Low radiation • Low core loss
- High current capacity
- Operating temperature: -55°C to +105°C
- V = vertical mount; H = horizontal mount
- See technical datasheets on [www.Jameco.com](http://www.Jameco.com) for complete specifications



### J.W. Miller 2100 Series Value Equivalents

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371741	2101-V	10.0	10.8	0.006	0.34	0.053	\$1.69	\$0.95	\$.71
371506	2101-H	10.0	10.8	0.006	0.77	0.053	1.69	1.03	.74
371750	2102-V	12.0	10.3	0.007	0.34	0.053	1.69	.95	.71
371565	2107-H	33.0	5.0	0.029	0.75	0.034	1.69	1.04	.74
371822	2109-V	47.0	3.6	0.055	0.31	0.027	1.69	1.04	.74
371848	2111-V	68.0	3.3	0.067	0.31	0.027	1.65	.95	.71
371856	2112-V	100.0	2.4	0.13	0.31	0.022	1.69	.95	.71
371611	2112-H	100.0	2.4	0.13	0.74	0.022	1.69	1.04	.74
371864	2113-V	120.0	2.2	0.15	0.31	0.022	2.05	1.14	.85

### J.W. Miller 2100 Series Value Equivalents (Cont.)

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371872	2114-V	150.0	3.4	0.062	0.35	0.034	\$1.65	\$1.20	\$.97
371638	2114-H	150.0	3.4	0.062	0.79	0.034	1.69	1.04	.74
371899	2116-V	220.0	2.4	0.12	0.34	0.027	1.65	.95	.71
371653	2116-H	220.0	2.4	0.12	0.77	0.027	1.65	.95	.71
371670	2118-H	330.0	1.7	0.23	0.76	0.022	1.65	.84	.63
371952	2122-V	680.0	1.4	0.33	0.35	0.022	1.89	1.17	.84
371961	2123-V	820.0	1.4	0.37	0.35	0.022	1.65	.95	.71
371725	2123-H	820.0	1.4	0.37	0.79	0.022	1.65	1.20	.97
371979	2124-V	1000.0	1.3	0.40	0.37	0.022	1.89	1.05	.79

### J.W. Miller 2200 Series Value Equivalents

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371303	2205-V	22.0	10.3	0.010	0.46	0.053	\$2.15	\$1.28	\$.96
371071	2206-H	27.0	9.8	0.011	0.88	0.053	2.19	1.31	.98
371320	2207-V	33.0	7.4	0.020	0.45	0.042	2.15	1.26	.95
371346	2209-V	47.0	6.7	0.024	0.45	0.042	2.15	1.26	.95

High-Current Toroid Inductors continued on next page

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## J.W. Miller 2200 Series Value Equivalents (Continued)

Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371303	2211-V	68.0	4.9	0.046	0.44	0.034	\$2.15	\$1.26	\$ .95
371371	2212-V	100.0	4.4	0.056	0.44	0.034	2.58	1.58	1.12
371135	2212-H	100.0	4.4	0.056	0.86	0.034	2.15	1.31	.93
371160	2215-H	180.0	3.8	0.075	0.90	0.034	2.19	1.12	<b>.84</b>
371418	2216-V	220.0	3.6	0.083	0.48	0.034	2.15	1.26	<b>.95</b>
371186	2217-H	270.0	3.4	0.092	0.90	0.034	2.35	1.45	<b>1.09</b>
371434	2218-V	330.0	3.3	0.10	0.48	0.034	2.35	1.37	1.23
371223	2221-H	560.0	2.2	0.21	0.88	0.027	2.35	1.45	<b>1.09</b>

## J.W. Miller 2300 Series Value Equivalents

Part No.	Cross Ref. No.	L (µH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
386901	2301-V	10.0	20.0	0.005	0.56	0.066	\$2.19	\$1.47	<b>\$1.10</b>
386978	2304-V	18.0	17.2	0.006	0.56	0.066	2.19	1.49	1.13
386521	2308-H	39.0	11.2	0.014	1.14	0.053	2.19	1.47	<b>1.10</b>
387111	2310-V	56.0	10.2	0.017	0.53	0.053	2.19	1.47	<b>1.10</b>
386601	2312-H	100.0	7.0	0.037	1.13	0.042	2.19	1.30	<b>.98</b>
387188	2313-V	120.0	6.7	0.040	0.52	0.042	2.25	1.73	1.42
387268	2316-V	220.0	5.8	0.054	0.56	0.042	2.19	1.49	1.13
386767	2319-H	390.0	5.0	0.072	1.17	0.042	2.25	1.73	1.37
387364	2320-V	470.0	3.8	0.13	0.54	0.034	2.19	1.49	1.13
386812	2321-H	560.0	3.6	0.14	1.16	0.034	2.19	1.47	<b>1.10</b>
388041	2324-V	1000.0	2.4	0.30	0.53	0.027	2.19	1.47	<b>1.10</b>

## J.W. Miller 5700 Series Value Equivalents

- Low radiation • Low core loss • High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max.  
C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 200 for EMI suppression cores
- See technical datasheets on [www.Jameco.com](http://www.Jameco.com) for complete specifications

Part No.	Cross Ref. No.	L (µH)	IDC max. (A)	L min. @ IDC	Pricing			
					1	10	25	50
208259	5701	10	11.0	5	\$4.36	\$4.17	\$3.99	\$3.60
208303	5707	75	5.0	40	4.35	3.75	3.37	2.78
208291	5705	450	1.5	250	4.35	3.28	2.95	2.44

## TRIAD High Current Rod Core Inductors

- Rated current @ 40°C temperature rise

Fig. 1

Fig. 2

Fig. 1

Part No.	Product No.	Inductance (mH) ±15%	DC Rated Current (A)	DCR (Ω) max.	Lead Diameter	Pricing		
						1	10	100
629466	Firch-2	3.05	9.7	7.3	0.045"	\$2.39	\$1.73	\$1.63

Fig. 2

Part No.	Product No.	Inductance 10%	DC Rated Current (A)	DCR (Ω) max.	Pricing		
					1	10	100
630264	RC-11	75µH	2.5	0.070	\$2.35	\$2.15	\$1.92
630256	RC-10	100µH	2.0	0.098	2.35	2.14	1.85

## Molded RF Chokes

- High Q and high reliability • Dielectric strength: 1000V<sub>RMS</sub>
- Injection molded to protect coil from extreme environment
- Color bands or numerical marking for identification

## J.W. Miller 9230 Series Value Equivalents

- Overall length: 2.25" • Lead length: 1.0"
- Body length: 0.25" • Body diameter: 0.095"
- Operating temp.: phenolic -55°C to +125°C, iron/ferrite -55°C to +105°C

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372437	9230-68	100	13	8.0	125	Ferrite	\$ .61	\$ .52	<b>\$ .39</b>

## Molded RF Chokes (Continued)

### J.W. Miller 9250 Series Value Equivalents

- Ferrite magnetic shielded for low radiation
- Operating temp.: -55°C to +105°C

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372533	9250-474	470.0	5.7	9.5	92	Ferrite	\$ .85	\$ .72	<b>\$ .54</b>
372550	9250-225	2200.0	0.97	33.8	50	Ferrite	.97	.83	<b>.62</b>
372568	9250-106	10,000.0	0.47	137.0	24	Ferrite	1.05	.89	<b>.67</b>

## Epoxy Conformal Coated RF Chokes

### J.W. Miller 77F Series Value Equivalents

- High current and self-resonant frequency
- Low DCR
- Dielectric strength: 500V<sub>RMS</sub>
- Color bands identification
- Overall length: 2.41"
- Low cost
- Operating temp.: -55°C to +105°C
- Body length: 0.41"
- Lead length: 1.0"
- Body diameter: 0.157"

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
372091	77F102	1000.0	1.4	14.0	100	\$ .43	\$ .366	<b>\$ .275</b>

\* L (µH) ±5%

### J.W. Miller 78F Series Value Equivalents

- High Q and self-resonant frequency
- Dielectric strength: 500V<sub>RMS</sub>
- Color bands identification
- Operating temp.: -55°C to +105°C
- Overall length: 2.28"
- Low cost
- Low DCR
- Body length: 0.28"
- Body diameter: 0.11"
- Lead length: 1.0"

Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
372111	78F1R0	1.0	180	0.15	385	\$ .42	\$ .357	<b>\$ .268</b>
372120	78F1R8	1.8	125	0.25	455	.42	.357	<b>.268</b>
372171	78F100	10.0	22	0.72	130	.25	.124	.101
372197	78F220	22.0	13	1.20	140	.42	.357	<b>.268</b>

\* L (µH) ±5%

## Hash RF Chokes

### J.W. Miller 5200 Series Value Equivalents

- Low cost
- High current capacity
- Ideal for use as EMI filter, output choke, smoothing coil
- Low DCR
- Varnish coated

Part No.	Cross Ref. No.	L ±10% (µH)	Res. Freq. Min. (Hz)	DCR Max. (Ω)	Current (mA)	Pricing		
						1	10	100
681088	5250	100	1.0kHz	0.216	2.0	\$1.05	\$1.00	\$ .69
681070	5252	125	1.0kHz	0.08	3.5	1.75	1.07	.76

## Axial Leaded RF Chokes

### J.W. Miller 4600 Series Value Equivalents

- Inductive tolerance: 10%
- Operating temperature: -55°C to +125°C
- Size: A = 6.8mm max.; B = 19.0mm max.  
C = 25.0 ±2.0mm; D = 0.65 ±0.5mm

Part No.	Cross Ref. No.	L (µH) @ 1kHz	Q min.	SRF (MHz) min.	DCR Ω max.	IDC (mA)	Pricing		
							1	10	100
208128	4611	8.2	57	65	1.2	600	\$ .69	\$ .559	\$ .458

## Conformal Coated RF Chokes

### J.W. Miller 5300 Series Value Equivalents

- High current and high self-resonant frequency
- Low DCR
- Epoxy coated to protect winding from harsh environments
- Low cost

Part No.	Cross Ref. No.	L ±10% (µH)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Current Max. (mA)	Pricing		
						1	10	100
644367	5300-13	10.0	25.0	0.095	1500	\$1.29	\$1.16	\$1.00
642492	5300-25	100.0	3.9	0.67	550	1.29	1.16	1.00

## Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max.; B = 7.0mm max.;  
C = 0.48±0.5mm (except P/N 208143: 0.50±0.5mm);  
D = 63±3mm

**Quantity SAVE**

Part No.	L (μH)	Q (min.)	Test. Freq (MHz)	Res. Freq Min. (MHz)	DCR Max. (Ω)	Max. DC Curr. (mA)	Pricing		
							1	10	100
208143	10	60	7.96	28.7	1.56	670	\$ .49	\$ .45	\$ .39
208194	100	45	2.52	5.0	4.98	240	.24	.204	.153
208240	1000	45	0.796	1.5	31.3	80	.49	.417	.313

JAMECO ValuePro

## High Current Axial RF Chokes

- High current capacity
- Ferrite bobbin core
- Low DCR
- Test frequency: 1kHz

## J.W. Miller 5800 Series Value Equivalents

Part No.	Cross Ref. No.	L ±10% (μH)	DCR Max. (Ω)	DC Current Max. (A)	Pricing		
					1	10	100
642564	5800-100	10	0.033	1.28	\$1.19	\$ .72	\$ .51
642601	5800-101	100	0.208	0.632	1.19	.72	.51
642644	5800-221	220	0.43	0.508	1.19	.72	.51
642679	5800-391	390	0.772	0.4	1.19	.72	.51
642695	5800-102	1000	2.30	0.200	1.19	.72	.51
642716	5800-222	2200	4.48	0.158	1.19	.72	.51
642741	5800-103	10,000	26.4	0.05	1.19	.72	.51

## J.W. Miller 5900 Series Value Equivalents

Part No.	Cross Ref. No.	L ±10% (μH)	DCR Max. (Ω)	DC Current Max. (A)	Pricing		
					1	10	100
642767	5900-220	22	0.026	6.07	\$2.09	\$1.28	\$ .90
642791	5900-101	100	0.09	2.79	2.09	1.28	.90
642821	5900-221	220	0.162	1.89	2.09	1.28	.90
642839	5900-271	270	0.208	1.63	2.09	1.28	.90
642863	5900-471	470	0.38	1.2	2.09	1.28	.90
642871	5900-681	680	0.548	1	2.09	1.28	.90
642880	5900-102	1000	0.844	0.8	2.09	1.28	.90
642898	5900-152	1500	1.18	0.7	1.95	1.43	.88
642901	5900-472	4700	3.19	0.4	2.09	1.28	.90
642919	5900-682	6800	5.69	0.322	2.09	1.28	.90
642927	5900-103	10,000	7.3	0.266	1.95	1.66	1.25




## TVS Diode Arrays

The SP720 is an array of SCR/Diode bipolar structures for ESD and overvoltage protection to sensitive input circuits. It contains 2 protection SCR/Diode device structure per input for a total of 14 available inputs.

Part No.	Product No.	Package	1	10	100	500
1762470	SP720AP	DIP-16	\$2.29	\$2.12	\$1.94	\$1.79
1762453	SP720ABG	SOIC-16	2.49	2.31	2.11	2.03

## LA Series Radial Leaded Varistors

- AC power line applications
- High energy absorption
- UL recognized as "transient voltage surge suppressors"
- Power supplies
- UL recognized as "across-the-line components"

LA Series		Size	Max. Ratings (+85°C)			Characteristics at 25°C		 34462			
			Continuous	Transient		Max Clamping Volt.					
			RMS Volt.	DC Volt.	Energy (10/100µs)	@ I <sub>PK</sub> Value Curr. (8/20µs)					
Part No.	Cross Ref. No.	Disc Dia. (mm)	V <sub>M(AC)</sub>	V <sub>M(DC)</sub>	W <sub>TM</sub>	V	I <sub>PK</sub> =2.0A	Pricing			
			Volts	Volts	Joules	Volts	Amps	1	10	100	500
34462	V130LA20A	20	130	175	70	340	100	\$ .59	\$ .56	\$ .54	\$ .52



## LA Series Equivalent Radial Leaded Varistors

Part No.	Cross Ref. No.	Size Dia. (mm)	Continuous Voltage		Transient Energy Joules	Maximum Clamping Voltage		Pricing			
			RMS V <sub>M(AC)</sub>	DC V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK(A)</sub>	1	10	100	500
667059	V130LA20B	20	130	200	140	340	100	\$ .41	\$ .359	\$ .313	
667112	V150LA10A	14	150	240	84	395	50	.26	.228	.198	
667121	V150LA20A	20	150	240	170	395	100	.41	.359	.313	

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
 New Sale Lower\$ QtySave

## ZA Varistor Series, Radial Lead

The ZA series of transient voltage surge suppressors are radial lead varistors (MOV) designed for use in the protection of low and medium voltage circuits and systems.

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Size (Dia.) mm	Continuous Voltage		Transient Energy Joules	Max. Clamping Voltage		Pricing		
			V <sub>M(AC)</sub>	V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK(A)</sub>	1	5	50
1763536	V18ZA1P	7	10	14	0.8	36	2.5	* .174	* .16	
1764299	V33ZA1	7	20	26	1.2	65	2.5	* .274	* .235	
1764310	V33ZA5	14	20	26	6	65	10	* .274	* .265	
1776003	V39ZA1	7	25	31	1.2	79	2.5	* .157	* .147	
1764441	V39ZA1P	7	25	31	1.2	79	2.5	* .157	* .147	
1776011	V39ZA6	14	25	31	6	76	10	* .333	* .323	
1776020	V47ZA7	14	30	38	8.8	93	10	* .357	* .339	
1764660	V47ZA7P	14	30	38	8.8	93	10	* .274	* .265	
1776038	V56ZA2	7	35	45	2.3	110	2.5	* .253	* .215	
1764993	V68ZA2P	7	40	56	3	135	2.5	* .253	* .215	

## LA Varistor Series, Radial Lead

The LA series of transient voltage suppressors are radial-lead varistors (MOV) that are designed to be operated continuously across AC power lines.

\* Prepackaged: please order in increments of 5

Part No.	Product No.	Size (Dia.) mm	Continuous Voltage		Transient Energy Joules	Max. Clamping Voltage		Pricing		
			V <sub>M(AC)</sub>	V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK(A)</sub>	1	5	50
1776046	V130LA2	7	130	175	11	340	10	* .228	* .205	
1762875	V130LA10AP	14	130	175	38	340	50	* .304	* .284	
1762883	V130LA20AP	20	130	175	70	340	100	* .431	* .412	
1776054	V150LA10A	14	150	200	45	395	50	* .365	* .327	
1763229	V150LA20AP	20	150	200	80	395	100	.57	.55	.52
1776062	V250LA20A	14	250	330	72	650	50	* .274	* .265	
1763819	V250LA40BP	20	250	330	130	620	100	* .431	* .412	
1763940	V275LA2P	7	275	369	23	775	10	* .413	* .31	
1763915	V275LA10	10	275	369	45	710	25	* .278	* .265	
1763923	V275LA10P	10	275	369	45	710	25	* .216	* .206	
1763958	V275LA40AP	20	275	369	140	710	100	.57	.477	.45
1776071	V275LA40B	20	275	369	140	680	100	* .431	* .412	
1764141	V300LA4P	7	300	405	25	775	10	* .208	* .147	
1764192	V320LA40BP	20	320	420	150	810	100	* .431	* .412	
1776089	V420LA20A	14	420	560	90	1120	50	* .40	* .36	
1764555	V420LA40BP	20	420	560	160	1060	100	.56	.51	.48

## High Energy Industrial DA Varistor Series

The DA series transient surge suppressors are heavy duty industrial metal-oxide varistors designed to provide surge protection for motor controls and power supplies used in oil drilling, mining and transportation equipment.

Part No.	Product No.	Continuous Voltage		Transient Energy Joules	Max. Clamping Voltage 200A (V <sub>C</sub> )	Pricing		
		V <sub>M(AC)</sub>	V <sub>M(DC)</sub>			1	10	100
1764256	V321DA40	320	420	460	830	\$39.29	\$35.10	\$31.10

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10% Blue Part No. = Limited Quantity Available

Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing			
					1	10	100	500
207482	NTC-102	1k	3800	-4.3	\$ .59	\$ .49	\$ .39	\$ .32
207441	NTC-502	5k	3900	-4.4	.59	.49	.39	.32
207037	NTC-103	10k	4100	-4.6	.69	.57	.446	.366
207011	NTC-203	20k	4200	-4.7	.59	.49	.39	.32
206991	NTC-104	100k	4400	-4.9	.59	.49	.39	.32

**Panasonic**

## ZNR Transient/Surge Absorbers (Type D)

- Large withstanding surge current capability in compact sizes
- Large "Energy Handling Capability" absorbing transient overvoltages in compact sizes

For more Panasonic Transient/Surge Absorbers visit [www.Jameco.com](http://www.Jameco.com)

These products are sold on Tape and Reel

Part No.	Product No.	Varistor Voltage (V)	Maximum Allowable Voltage (V)		Clamping Voltage @ 8/20µs		Maximum Energy (Joule)		Maximum Peak Current @ 8/20µs (A)		Pricing	
			ACrms	DC	Max. (V)	Ip (A)	10/1000µs	2ms	1 time	2 times		
864968	ERZ-V05D220	22 (20-24)	14	18	48	1	0.7	0.5	250	125	★	Call
864976	ERZ-V05D270	27 (24-30)	17	22	60	1	0.9	0.7	250	125	★	Call
864984	ERZ-V05D390	39 (35-43)	25	31	86	1	1.2	0.9	250	125	★	Call
864992	ERZ-V05D560	56 (50-62)	35	45	123	1	1.8	1.3	250	125	★	Call
865004	ERZ-V05D680	68 (61-75)	40	56	150	1	2.2	1.6	250	125	★	Call
865012	ERZ-V07D201	200 (185-225)	130	170	340	10	17.5	12.15	1750	1250	★	Call
865021	ERZ-V07D220	22 (20-24)	14	18	4.3	2.5	1.3	1.1	500	250	★	Call
865039	ERZ-V07D330	33 (30-36)	20	26	65	2.5	2	1.6	500	250	★	Call
922718	ERZ-V07D390	39 (35-43)	25	31	77	2.5	2.4	1.9	500	250	★	Call
865047	ERZ-V07D431	430 (387-473)	275	350	710	10	40	27.5	1750	1250	★	Call
865055	ERZ-V07D470	47 (42-52)	30	38	93	2.5	2.8	2.3	500	250	★	Call
865063	ERZ-V07D471	470 (459-561)	320	410	845	10	45	32	1750	1250	★	Call
865071	ERZ-V07D560	56 (50-62)	35	45	110	2.5	3.4	2.7	500	250	★	Call
865080	ERZ-V07D820	82 (74-90)	50	65	135	10	7	5	1750	1250	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

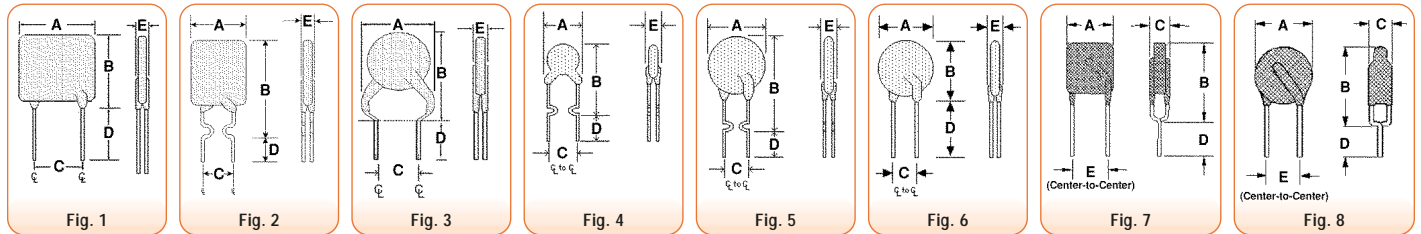
**Raychem**

## Polyswitch® PTC Resettable Fuses

- Flame retardant epoxy polymer, YL94V-0 rated

- For detailed product datasheet, please see [www.Jameco.com](http://www.Jameco.com)

For more Raychem fuses visit [www.Jameco.com](http://www.Jameco.com)



\* Prepackaged: please order in increments of 5

\* Prepackaged: please order in increments of 5

Part Number	Product Number	Hold Curr. (I <sub>HT</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig	Size (mm)				Pricing		
					A	B	C	D	1	5	100

### RGE Series (16V/100A max.)

923374	RGE300	3	5.1	1	7.1	11	5.8	7.5	★	Call	Call
1393715	RGEF300	3	5.1	1	7.1	11	5.8	7.5	★	Call	Call
923391	RGE500	5	8.5	1	10.4	14.3	5.8	7.5	★	Call	Call
865952	RGE700	7	11.9	1	11.2	19.7	5.8	7.5	★	Call	Call

### RUE Series (30VDC/100ADC; 30VAC/70ARMS)

866146	RUEF090	0.9	1.8	2	7.4	12.2	5.8	7.6	*	\$.281	\$.259
866171	RUEF110	1.1	2.2	2	7.4	14.2	5.8	7.6	*	\$.281	\$.265
866200	RUEF135	1.35	2.7	2	8.9	13.5	5.8	7.6	*	\$.419	\$.385
923497	RUE185	1.85	3.7	2	10.2	15.7	5.8	7.6	*	\$.448	\$.412
866234	RUEF185	1.85	3.7	2	10.2	15.7	5.8	7.6	*	\$.448	\$.412
866269	RUEF250	2.5	5	2	11.4	18.3	5.8	7.6	*	\$.388	\$.343
866293	RUEF300	3	6	1	11.4	16.5	5.8	7.6	*	\$.359	\$.333
866074	RUE300U	3	6	1	11.4	16.5	5.8	7.6	*	\$.339	\$.302
923657	RUEF400	4	8	1	14	19.3	5.8	7.6	*	\$.388	\$.363
866322	RUEF600	6	12	1	16.5	24.1	10.9	7.6	★	\$.51	\$.46
923614	RUE700	7	14	1	19.1	25.9	10.9	7.6	★	\$.54	\$.48
866111	RUE900	9	18	1	24.1	29	10.9	7.6	★	Call	Call
1400111	RUEF900	9	18	1	24.1	29	10.9	7.6	★	\$.75	\$.70

### RXE Series (60V/40A max.)

866630	RXEF005	0.05	0.1	3	8	8.3	5.8	7.6	*	\$.24	\$.224
866664	RXEF010	0.1	0.2	4	7.4	11.6	5.8	7.6	*	\$.235	\$.219
866701	RXEF017	0.17	0.34	5	7.4	12.7	5.8	7.6	*	\$.239	\$.222
866736	RXEF020	0.2	0.4	5	7.4	11.7	5.8	7.6	*	\$.242	\$.226
866761	RXEF025	0.25	0.5	5	7.4	12.7	5.8	7.6	*	\$.238	\$.228

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
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Order 24/7 Toll Free 1-800-831-4242

TRIAD

## Audio Transformers

- Epoxy molded case
- High pot tested @ 1000V<sub>RMS</sub>
- Number of circuits: 1
- Meets the rigid requirements of MIL-T-27E
- Gold plated leads
- 150VDC working voltage
- Power level: 50W
- Primary DC max.: 3mA

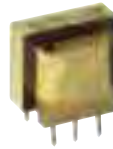


Part No.	Prod. No.	Matching Imp. (Ω)		Resistance (Ω)		Overall Turn Ratio	Pricing		
		Primary	Secondary	Primary	Secondary		1	10	100
630424	SP-70	600	600	72	92	1:1	\$17.15	\$12.34	\$11.63

TRIAD

## PC Mount Audio Transformers

- Impedance matching: 10% over frequency range
- Applications: line matching, telephone coupling, pulse trigger, driver, interstage, output, isolation, & input



Size: 5/8"H x 9/32"D x 13/16"L

Part No.	Product No.	Output (mW)	Impedance (Ω)		Primary DC Unbalance	Pricing		
			Primary	Secondary		1	10	100
630432	TY-141P	200	10,000CT	10,000CT	4mA	\$3.79	\$2.75	\$2.59
630441	TY-142P	100	10,000CT	2,000CT	4mA	3.75	2.90	2.59
630459	TY-145P	100	600CT	600CT	15mA	3.65	3.09	2.62

Size: 1-1/8"H x 1-1/8"D x 1-3/8"L

Part No.	Product No.	Output (W)	Impedance (Ω)		Primary DC Unbalance	Pricing		
			Primary	Secondary		1	10	100
630467	TY-146P	1	600CT/150	600CT/150	—	\$6.99	\$5.10	\$4.80

Blue Part No. = Limited Quantity Available

TRIAD

## Data Voice Coupling Transformers

- Meets requirements for access over leased private lines or through dial-up switched telephone network
- Applications: impedance matching, isolation, repeat coil, line balancing, and hybrid circuits
- Designed to meet FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz
- Dielectric strength FCC68.304: 1500V
- Frequency range: data voice: 300 – 3500Hz; data: 800 to 3500Hz



### Data/Voice Coupling Transformers

- Typical frequency response: ±0.5

Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	100
630521	TY-307P	600	600	0	1.0	26	\$6.19	\$4.52	\$4.26

### Data/Voice Dual Transformer Hybrid

- Trans-hybrid loss: 50dB

630475	TY-300P	600 (4W)	600/600	0	0.8	30	\$4.39	\$3.73	\$3.55
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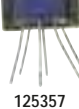
## Modem Coupling Transformers

125357:

- Insulation resistance: 100MΩ
- Vacuum wax impregnated
- Core type: EI-14
- ±20% impedance matching and DC resistance matching



117760



- 117760: Dielectric strength: 1250VAC
- Insertion loss: 2.50dB @ 1kHz

Part No.	Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125357	XFR6006A14	600CT	600CT	65	55	\$1.39	\$1.31	\$1.17
117760	671-8014	600	600	108	120	2.39	2.03	1.61

Littlefuse

## POLYFUSE® Resettable PTC Radial Leaded

The 60R series radial lead device is designed to provide overcurrent protection for (≤60V) applications where space is not a concern and resettable protection is preferred.

NEW

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Hold Current (A)	Trip Current (A)	Dimensions (Ins)					Pricing		
				Dia.	Height	Lead Length	Lead Spacing	Thickness	1	10	100
1712624	60R010	0.1	0.2	0.29	0.5	0.3	0.2	0.12	*	\$ .441	\$ .403

This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

ROHM

## MF-R & MF-RX Series PTC Resettable Fuses

- Applications: almost anywhere there is a low voltage power supply and a load to be protected including computers & peripherals, general electronics, and automotive applications.
- Operating temperature: -40°C to 85°C



### MF-R Series

\* Prepackaged: please order in increments of 5

Part No.	Product No.	V max. @ I max.	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Pricing		
					1	5	100
859350	MF-R010	60V@40A	0.1	0.2	*	\$ .30	\$ .282
776116	MF-R010-0-99	60V@40A	0.1	0.2	*	.466	.392
776132	MF-R025	60V@40A	0.25	0.5	*	.319	.30
776141	MF-R030	60V@40A	0.3	0.6	*	.319	.30
776159	MF-R040	60V@40A	0.4	0.8	*	.338	.318
859376	MF-R050	60V@40A	0.5	1	*	.338	.318
776167	MF-R050-0-99	60V@40A	0.5	1	.51	.47	.43
776175	MF-R075	60V@40A	0.75	1.5	*	.338	.318
776183	MF-R090	60V@40A	0.9	1.8	*	.338	.318
859384	MF-R110	60V@40A	1.1	2.2	*	.338	.318
776212	MF-R135	30V@40A	1.35	2.7	*	.338	.318
776221	MF-R135-0-99	30V@40A	1.35	2.7	.54	.465	.45
859413	MF-R160	30V@40A	1.6	3.2	*	.375	.353
776239	MF-R185	30V@40A	1.85	3.7	*	.375	.353
776247	MF-R250	30V@40A	2.5	5	.64	.59	.54
859448	MF-R300	30V@40A	3	6	.50	.43	.41
776255	MF-R400	30V@40A	4	8	.52	.45	.42
776263	MF-R500	30V@40A	5	10	.57	.49	.46
776271	MF-R600	30V@40A	6	12	.59	.51	.48
776280	MF-R800	30V@40A	8	16	*	.77	.71
859472	MF-R900	30V@40A	9	18	.68	.58	.55
776204	MF-R1100	16V@100A	11	22	*	.84	.76
776191	MF-R1100-0-99	16V@100A	11	22	.56	.52	.48

\* See manufacturer's datasheet for marking details

### MF-RX Series

776298	MF-RX110	60V@40A	1.1	2.2	\$ .52	\$ .48	\$ .44
776301	MF-RX160	60V@40A	1.6	3.2	.58	.53	.49
859501	MF-RX185	60V@40A	1.85	3.7	*	.375	.353
776319	MF-RX250	60V@40A	2.5	5	.63	.59	.54
776327	MF-RX375	60V@40A	3.75	7.5	.69	.64	.59

This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

EGE

## Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

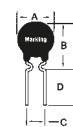


Fig. 1

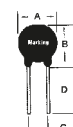


Fig. 2

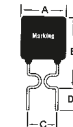


Fig. 3

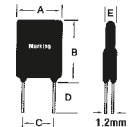


Fig. 4

### RA Series

- Rated voltage: (V<sub>MAX</sub>): 60V
- Lead length (D): 7.6mm min.
- Max. current: (I<sub>MAX</sub>): 40A
- Thickness (E): 3.1mm max.

Part No.	Mfg. P/N	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199815	RA010-60	0.10	0.20	1	7.4	12.7	5.1	\$ .54	\$ .49	\$ .47	\$ .37
199832	RA020-60	0.20	0.40	1	7.4	12.2	5.1	.55	.493	.469	.373
199850	RA025-60	0.25	0.50	1	7.4	12.7	5.1	.50	.458	.416	.337
199858	RA030-60	0.30	0.60	1	7.4	13.0	5.1	.54	.49	.47	.37
199874	RA050-60	0.50	1.00	1	7.9	13.7	5.1	.58	.55	.51	.38
199882	RA065-60	0.65	1.30	1	9.7	14.5	5.1	.54	.495	.406	.366
199912	RA110-60	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40
199954	RA250-60	2.50	5.00	2	21.3	26.4	10.2	.70	.63	.57	.49

### RB Series

- Rated volt.: (V<sub>MAX</sub>): 30V
- Thickness (E): 3.0mm max.
- Max. current (I<sub>MAX</sub>): 40A
- Lead length (D): 7.6mm min.

200030	RB185-30	1.85	3.70	3	10.2	15.7	5.1	\$ .48	\$ .43	\$ .39	\$ .32
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## Littelfuse Glass and Ceramic Fuses

- 250V
- 1.25"L x 0.25"Dia.
- UL/CSA/CE



3AG-312



3AG-313



3AB-314

3AG Type Fast Acting Glass Fuses  
312 Series

Part No.	Product No.	Amps	1	10	100
652826	312.062HXP	1/16	\$.75	\$.66	\$.60
652834	312.100HXP	1/10	.75	.67	.60
652842	312.125HXP	1/8	.83	.77	.73
652851	312.175HXP	0.175	.82	.77	.67
652869	312.187HXP	3/16	.90	.86	.65
652877	312.200HXP	2/10	.80	.76	.67
652885	312.250HXP	1/4	.82	.77	.73
652893	312.300HXP	3/10	.82	.77	.73
652906	312.375HXP	3/8	.41	.354	.32
652914	312.500HXP	1/2	.31	.298	.283
652922	312.600HXP	6/10	.28	.251	.222
652931	312.750HXP	3/4	.28	.251	.22
652949	312001.HXP	1	.25	.226	.186
652957	3121.25HXP	1 1/4	.23	.197	.186
652965	31201.5HXP	1 1/2	.24	.223	.196
652973	312002.HXP	2	.24	.223	.196
652981	312025.HXP	2 1/2	.24	.223	.196
652990	312003.HXP	3	.24	.223	.196
653001	312004.HXP	4	.28	.251	.225
653010	312005.HXP	5	.28	.251	.225
653028	312006.HXP	6	.28	.263	.25
653036	312007.HXP	7	.28	.251	.227
653044	312008.HXP	8	.38	.332	.309

3AG Type Slow Blow Glass Fuses  
313 Series

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Amps	1	10	100
653263	313.010HXP	1/100	\$3.29	\$3.08	\$2.56
653271	313.031HXP	1/32	3.29	3.08	2.56
653280	313.040HXP	4/100	3.29	3.08	2.56
653298	313.062HXP	1/16	1.69	1.58	1.46
653301	313.100HXP	1/10	1.75	1.59	1.47
653319	313.125HXP	1/8	1.75	1.59	1.47
653327	313.150HXP	15/100	1.75	1.59	1.47
653335	313.187HXP	3/16	1.45	1.38	1.31
653343	313.200HXP	2/10	1.07	1.01	.93
653351	313.250HXP	1/2	.98	.92	.88
653360	313.300HXP	3/10	.95	.92	.88
653378	313.375HXP	3/8	.95	.91	.88
653386	313.400HXP	4/10	1.29	1.25	1.18
653394	313.500HXP	1/2	.89	.89	.84
653407	313.600HXP	6/10	.89	.89	.84
653415	313.700HXP	7/10	.89	.89	.84
653423	313.750HXP	3/4	.89	.89	.84
653431	313.800HXP	8/10	.89	.89	.84
653440	313001HXP	1	.89	.85	.81
653458	31301.2HXP	1 1/2	.75	.68	.64
653466	3131.25HXP	1	.69	.66	.63
653474	31301.5HXP	1	.75	.68	.64
653482	31301.6HXP	1 1/2	.55	.47	.425
653491	313002HXP	2	.85	.85	.81
653503	31302.5HXP	2	.74	.69	.66
653511	313003HXP	3	.76	.75	.74
653520	31303.2HXP	3 1/2	.74	.68	.66
653538	313004HXP	4	.84	.79	.74
653546	313005HXP	5	.84	.79	.74

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## Glass and Ceramic Fuses (Con't)

## 3AG Type Slow Blow Glass Fuses 313 Series (Cont.)

Part No.	Product No.	Amps	1	10	100
653554	3136.25HXP	6 1/4	\$.84	\$.79	\$.74
653562	31306.3HXP	6 3/4	.62	.56	.50
653571	313007HXP	7	.84	.79	.74
653589	313008HXP	8	.84	.79	.74
653597	313010HXP	10	1.05	1.00	.95
653600	313012HXP	12	1.25	1.22	1.20
653618	313015HXP	15	1.25	1.22	1.20
653626	313020HXP	20	1.25	1.22	1.20
653634	313025HXP	25	1.09	1.01	.94
653642	313030HXP	30	1.08	1.01	.95

\*Rated 32V

## 3AB Type Fast Acting Ceramic Fuses

## 314 Series

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Amps	1	10	100
656827	314.125HXP	1/8	\$1.25	\$1.11	\$1.05
656835	314.250HXP	1/4	1.15	1.09	1.01
656843	314.500HXP	1/2	.99	.95	.90
656851	314.750HXP	3/4	.80	.76	.72
656860	314001HXP	1	.71	.68	.63
656878	314002.HXP	2	.72	.68	.65
656886	314003.HXP	3	.71	.67	.63
656894	314004.HXP	4	.71	.67	.63
656915	314005.HXP	5	.71	.67	.63
656923	314006.HXP	6	.71	.67	.63
656931	314007.HXP	7	.71	.67	.63
656940	314008.HXP	8	.83	.82	.76
656958	314010.HXP	10	.83	.82	.76
656966	314012.HXP	12	.73	.68	.63
656982	314020.HXP	20	1.06	1.00	.92
656991	314025.HXP	25	1.06	1.00	.92
657002	314030.HXP	30	1.06	1.00	.92

## Littelfuse Blade Fuses

## ATO® Blade Fuses

NEW

- Voltage rating: 32VDC
- Interrupting ratings: 1000A @ 32VDC
- Operating temperature range: -40°C to 125°C
- Minimum order 5 pieces

Part No.	Product No.	Amps	Color	5	50
1710522	257002.PXPV	2.0	Gray	\$.288	\$.27
1710549	257005.PXPV	5.0	Brown	.368	.348
1710590	25707.5XPV	7.5	Dk. brown	.38	.35
1710557	257010.PXPV	10.0	Red	.421	.353
1710565	257015.PXPV	15.0	Aqua	.368	.308
1710573	257025.PXPV	25.0	White	.252	.234
1710581	257040.PXPV	40.0	Orange	.384	.353

## MIDI® Blade Terminal

- Size: 41mmL x 12mmW x 8mmH

Part No.	Product No.	Amps	1	10	100
1712587	498040.M	40.0	\$.499	\$4.66	\$4.31

## Mini® Blade Fuses

- Prepackaged: please order in increments of 5

Part No.	Product No.	Amps	Color	5	50
1710768	297002.WXV	2.0	Gray	\$.447	\$.41
1710776	297003.WXV	3.0	Violet	.447	.41
1710784	297004.WXV	4.0	Pink	.447	.41
1710792	297010.WXV	10.0	Red	.447	.41
1710805	297015.WXV	15.0	Aqua	.447	.41
1710813	297020.WXV	20.0	Yellow	.447	.41

## MAXI™ Blade Fuse

Part No.	Product No.	Amps	Color	1	10	100
1710899	299080.ZXNV	80.0	White	\$2.65	\$2.47	\$2.28

## Littelfuse 3AB SLO-BLO® FUSES

## 326 Series (Ceramic Body)

NEW

- 250V
- UL/CSA
- 1.25"L x 0.25"Dia.

Part No.	Product No.	Amps	1	10	100
1711621	326015.HXP	15	\$.128	\$1.20	\$.99

## 5mm x 20mm Fast Acting Fuse, 217 Series

- 250V
- UL/CSA/VDE/CE
- 5mm x 20mm

- Prepackaged: please order in increments of 5

Part No.	Product No.	Amps	5	100
1709450	217001.HXP	1	\$.245	\$.225
1709468	217002.H	2	.245	.225

## 5mm x 20mm Time Lag (SLO-BLO®) Fuse

- 250V
- UL/CSA/CE
- 5mm x 20mm

Part No.	Product No.	Amps	1	10	100
1709581	218.200HXP	0.200	\$1.15	\$1.06	\$.88
1709599	218.250HXP	0.250	1.15	1.06	.88
1709628	218.400HXP	0.400	1.15	1.06	.88
1709644	218.500HXP	0.500	.77	.73	.60
1709687	218001.H	1.000	.61	.56	.53
1709695	218001.HXP	1.000	.77	.73	.68
1709708	218002.HXP	2.000	.77	.73	.60
1709812	21802.5HXP	2.500	.90	.81	.73
1709724	218005.H	5.000	.97	.87	.78

## Micro™ Very Fast Acting Type, 273 Series

- 125V
- UL/CSA
- Operating temp. range: -55°C to 85°C
- Size: 0.25"D x 0.35"H x 0.17" lead length x 0.1" lead spacing

Part No.	Product No.	Amps	1	10	100
1710653	273.050H	1/20	\$4.25	\$3.86	\$3.47
1710670	273.500H	1/2	4.19	3.80	3.40
1710688	273.750H	3/4	4.25	3.86	3.47
1710696	273001.H	1	4.19	3.81	3.43
1710709	273002.H	2	4.19	3.81	3.43
1710717	273004.H	4	4.19	3.81	3.43

## Littelfuse Subminiature Fuses

- Base/cap: brown thermoplastic polyamide PA 6.6, UL94V-0
- Round pins: copper, tin plated
- Operating temp. range: -40°C to 85°C

## No. 372/TR5® Time Lag

NEW

- Size: 8.5mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing
- 250V
- UL/CUL/VDE

Part No.	Product No.	Amps	1	10	100
1713459	3721200041	2.0	\$.52	\$.469	\$.431
1713483	3721400041	4.0	.65	.60	.45
1713491	3721500041	5.0	.65	.60	.45

## No. 374/TR5® Time Lag

- Size: 8.5mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing
- 250V
- UL/CUL/CSA

Part No.	Product No.	Amps	1	10	100
1713580	3740500041	0.500	\$.85	\$.79	\$.59

## No. 373/TR5® Quick Acting

- Size: 8.5mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing
- 250V
- UL/CUL/CSA

Part No.	Product No.	Amps	1	10	100
1713504	3730050041	0.500	\$.385	\$.358	\$.268
1713512	3730125041	0.125	.85	.79	.59
1713547	3731315041	3.150	.85	.79	.59

## No. 396/TE5® Time Lag

- 4mm D x 8mm H x 4.3mm lead length x 5.08mm lead spacing
- 125V
- UL/CUL

Part No.	Product No.	Amps	1	10	100
1713766	3961100044	1.0	\$.94	\$.87	\$.65



## Fuses



## AGC (3AG) Fast Acting Glass Fuses

- Glass tube, nickel-plated brass endcaps
- 250V • 1/4" x 1 1/4" • UL/CSA \* Minimum order 10 pieces

Part No.	Product No.	Amp	1	10	100
1769153	AGC-1/2-R	1/2	\$1.09	\$ .97	\$ .88
1769196	AGC-2-R	2.0	.68	.62	.55
1769209	AGC-3	3.0	*	.24	.22

## ATC Automotive Blade Fast Acting Fuses

- Volt. rating: 32VDC • Interrupting rating: 1000A

Part No.	Product No.	Amp	Color	1	10	100
1769313	ATC-5	5.0	Tan	\$.87	\$.62	\$.59
1769268	ATC-15	15.0	Blue	\$.87	.62	.59

## GDB Fast Acting Glass Fuses

- 250V • UL/VDE • 5mm x 20mm

Part No.	Product No.	Amp	1	5	100
1769436	GDB-1A	1.0	\$.149	\$.158	\$.149
1769452	GDB-6.3A	6.3	.149	.158	.149

## GDC Time Delay Glass Fuses

- 250V • UL/VDE • 5mm x 20mm

Part No.	Product No.	Amp	1	10	100
1769532	GDC-500mA	0.500	\$.77	\$.61	\$.58
1769487	GDC-1A	1.0	.70	.51	.47
1769479	GDC-1.6A	1.6	.70	.50	.47
1769495	GDC-2A	2.0	.70	.50	.47
1769508	GDC-3.15A	3.15	.76	.61	.56
1769524	GDC-4A	4.0	.70	.51	.47
1769541	GDC-5A	5.0	.76	.61	.56
1769559	GDC-6.3A	6.3	.67	.58	.55

## GDA Fast Acting Ceramic Fuse

- 250V • UL/VDE • 5mm x 20mm

Part No.	Product No.	Amp	1	10	100
1769381	GDA-3.15A	3.15	\$1.06	\$.95	\$.83

## GMA Fast Acting Glass Fuses

- 250V • UL/CSA • 5mm x 20mm

Part No.	Product No.	Amp	10	100
1769583	GMA-1-R	1.0	\$.091	\$.082
1769591	GMA-3-R	3.0	.091	.082

## GMT Fast Acting Indicating Fuses

- Voltage rating: 60VDC, 125VAC • UL
- Interrupting rating: 450A @ 60VDC; 300A # 125VAC
- Body material: thermoplastic, UL94V-0
- Terminals: tin-plated beryllium copper

Part No.	Product No.	Amp	Color	1	10	100
1769639	GMT-1A	1.0	Gray	\$2.09	\$1.67	\$1.51
1769647	GMT-2A	2.0	Orange	2.09	1.67	1.51
1769663	GMT-3A	3.0	Blue	2.09	1.67	1.59
1769671	GMT-5A	5.0	Green	2.09	1.67	1.59
1769680	GMT-7.5A	7.5	Blk/Whi	2.09	1.67	1.59
1769621	GMT-10A	10.0	Red/Whi	2.09	1.67	1.50

Minimum order 5 pieces

Part No.	Product No.	Amp	5	100
1769698	GMT-X	Fuse cover for GMT Series	\$.40	\$.36

## MDA Time Delay Ceramic Fuse

- 250VAC / 125VDC • UL/CSA • 1/4" x 1 1/4"

Part No.	Product No.	Amp	1	10	100
1770154	MDA-20	20.0	\$1.35	\$.97	\$.93

## MDL Time Delay Glass Fuses

- 250V • UL/CSA • 1/4" x 1 1/4"

Part No.	Product No.	Amp	1	10	100
1770218	MDL-1-R	1.0	\$1.01	\$.85	\$.70
1770226	MDL-2	2.0	.76	.60	.54
1770251	MDL-2-R	2.0	.77	.65	.53
1770285	MDL-5	5.0	.77	.56	.54
1770293	MDL-5-R	5.0	.77	.65	.53

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

\* RoHS compliant product

\* This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## PCC/PCE PC-Tron® Series Subminiature

## PCB Type Fuse

- PCC Series: 250VAC/450VDC • UL/CSA
- PCE Series: 125VAC/250VDC • Body: plastic
- Size: 0.35"W x 0.32"H x 0.1" Lead Length x 0.2" Lead spacing
- Leads: tin-plated copper

Part No.	Product No.	Amp	1	10	100
1770357	PCC-1	1.0	\$1.69	\$1.35	\$1.28
1770373	PCC-2	2.0	1.65	1.33	1.26
1770381	PCC-3	3.0	1.65	1.35	1.28
1770402	PCE-5	5.0	1.68	1.35	1.28

Part No.	Product No.	Description	1	10	100
1770429	PCS	PCB Socket	\$.63	\$.50	\$.48

## KTK Limitron® Fast Acting Fuse

- 600VAC • UL/CSA • 0.41"D x 1.5"L

Part No.	Product No.	Amp	1	10	100
1772897	KTK-30	30.0	\$14.49	\$13.19	\$12.47

## Jameco ValuePro 1 1/4" x 1/4" Standard Fuses

## Fast Acting Fuses (250V)

## AGC/3AG Fuses

- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	1000
69404	250mA	AGC-250mA	\$.349	\$.314	\$.279
10410	500mA	AGC-1/2	.23	.21	.17
10373	1A	AGC-1	.341	.205	.188
197528	1.6A	AGC-1.6	.198	.158	.119
10382	2A	AGC-2	.24	.144	.132
197536	2.5A	AGC-2 1/2	.26	.12	.10
69439	3A	AGC-3	.334	.201	.184
197544	4A	AGC-4	.264	.24	.216
10401	5A	AGC-5	.22	.20	.18
197552	6.3A	AGC-6.3	.264	.24	.216
69462	10A	AGC-10	.30	.264	.24
186301	16A	—	.25	.22	.20

## Slow Blow Fuses (250V)

## MDL/3AG Fuses

Part No.	Amps	Cross Ref.	1	10	100	1000
25654	250mA	MDL-1/4	\$.62	\$.56	\$.446	\$.335
25689	500mA	MDL-1/2	.75	.63	.535	.396
25639	1A	MDL-1	1.15	.99	.84	.62
25646	2A	MDL-2	.65	.57	.54	.468
69535	3A	MDL-3	.55	.44	.34	.28
25672	5A	MDL-5	.69	.543	.42	.346
69570	10A	MDL-10	.90	.78	.62	.48

## Jameco ValuePro 5mm x 20mm Mini Fuses

## Fast Acting Fuses

## (250V) GMA Fuses

- Recommended for new designs

- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	500	1000
103887	250mA	GMA-250mA	\$.24	\$.18	\$.132	\$.12
102041	500mA	GMA-500mA	.22	.165	.121	.11
103907	1A	GMA-1	.20	.15	.11	.10
103916	2A	GMA-2	.305	.22	.159	.147
103924	3A	GMA-3	.335	.251	.184	.167
103932	5A	GMA-5	.178	.158	.153	.122

## Slow Blow Fuses (250V)

## GMD Fuses

- Prepackaged: please order in increments of 10

Part No.	Amps	Cross Ref.	10	100	1000
197502	500mA	GMD-500mA	\$.369	\$.331	\$.293
197465	1A	GMD-1	.43	.385	.341
197472	2A	GMD-2	.35	.32	.29
197482	3.15A	GMD-3.15	.40	.36	.33
197500	5A	GMD-5	.468	.428	.388

## FUSE HOLDERS

## Fuse Holders

## Automotive

- Vertical entry
- Dual Fuses: UL9V-0
- Current rating: 30A @ 500VAC (except P/N 1581863: 60A @ 500VAC) \* Minimum order 10 pieces

Part No.	Product No.	Description	1	10	50
1581839	3522	Dual, brass, tin plated	\$.116	\$.104	
1582479	3522-2	Single, brass, tin plated	.62	.52	.41
1582487	3544-2	"Mini", dual, brass, tin nickel plated	.76	.72	.49
1581863	3555	"Maxi", single, brass, tin nickel plated	.23	.184	.179

## 5mm Fuse Clips

- PC mount • Material: brass, tin plated

Part No.	Product No.	Description	5	50
1581812	3517	Single, end stop, 15A	\$.108	\$.102
1582461	3518P	Single, orient. leg, 15A	.147	.144
1581821	3519	Single, orient. leg, 10A	.087	.078
1581855	3529	Single, end stop, 10A	.095	.089

## 5mm Fuse Holders

- PC Mount
- Material: nylon, UL9V-0

Part No.	Product No.	Description	5	50
1581871	4527	Low profile holder, 5A @ 250VAC	\$.333	\$.312
1582495	4527-C	Cover	.137	.13

## Bussmann

## Fuse Holders

## HKP Panel Mount

- Max. panel thickness: 5/16" (7.9mm)
- Body/cap/nut: thermoplastic, UL94 HB • UL/CSA
- Bayonet type knob • Terminal: tin-plated brass
- 1769807: • Size: 2.31"L x 0.69"D • Solder eyelet
- 1769815: • Size: 2.64"L x 0.69"D • 1/4 quick connect

Part No.	Product No.	Rating	1	10	100
1769807	HKP	250V, 30A	\$2.55	\$1.85	\$1.75
1769815	HKP-HH	250V, 15A	3.19	2.43	2.43

See page 253 for more Bussmann Fuse Holders and Clips

## Panel Mount Fuse Holders

## Traditional Style for 3AG Fuses

- Dielectric strength: 2400V min.
- Knob: bayonet style with lettering
- Molded parts: black thermoplastic, UL94V-0
- Current rating: 20A
- Solder terminals
- Terminals: Copper & copper alloy, tin plated

Part No.	Product No.	1	10	100
1711681	342012	\$2.65	\$2.49	\$2.07

## For Midget Fuses

- Electrical rating: 30A up to 600V • UL/CSA
- Dielectric strength: 4000V min. • Mounting: flange
- Knob: screw type with engraved markings
- Terminals: brass, tin plated • Length range: 1 1/2" - 1 1/2"
- Molded parts: black thermoplastic, UL94V-0

Part No.	Product No.	Description	1	10	100
1712616	571007	Straight term.	\$5.29	\$4.96	\$4.53

## PCB Mount Blade Fuse Holders

## For Mini® Style Blade Fuses

- Rating: 15A

Part No.	Product No.	Description	1	10	100
----------	-------------	-------------	---	----	-----

1708861	153007	Horizontal mount	\$1.29	\$1.21	\$1.12
1708879	153009	Stackable vert. mnt	1.29	1.21	1.12



## Twist-Lock Universal In-Line Fuse Holder

- 8" loop of #14AWG red vinyl insulated wire and 2 springs in different lengths to accommodate SFE sized fuses



Part No.	Product No.	1	10	100
1708959	155100	\$2.09	\$1.97	\$1.64

## Heavy Duty Bayonet Knob Universal In-line Fuse Holder

- Supplied with 15" loop #14AWG red vinyl insulated wire and three springs in different lengths to accommodate SFE sized fuses.



Part No.	Product No.	1	10	100
1708810	150145	\$2.85	\$2.64	\$2.20

## Metric Omni-Blok® Fuse Block for 5mm x 20mm Fuses

- Dielectric strength: 1500V min.
- PCB mount
- Clip/terminals: tin plated spring brass
- Base: glass reinforced thermoplastic, UL94V-0, black
- Electrical rating: (UL/CSA) – 10A, 300V; (VDE/Semko) – 6.3A, 250V • Width: 0.40"



Part No.	Product No.	Terminals	1	10	100
1712608	520101	Brass	\$.89	\$.83	\$.77

## Fuse Clips for 3AG Type 1/4" Dia. Traditional Style PCB

- Finish: tin-plate (P/N 1708799: silver-plate)



Part No.	Product No.	Clip Material	Style	1	10	100
1708705	102070	Spring brass	Ear	\$.127	\$.108	
1708713	102074	Spring brass	Earless	\$.158	\$.156	
1708799	122083	Beryllium copper	Ear	\$.54	\$.50	\$.42

## 5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC • Size: 1.4"L x 0.6"Dia.
- D-style mounting hole: 1 ea. 0.5"Dia x .46" flat



Part No.	Description	1	10	100
102832	Fuse holder UL/CSA	\$2.95	\$2.69	\$2.39

## In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108784 orange



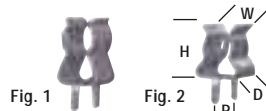
Part No.	AWG	Wire Lengths	Body Size(L)	Body Color	1	10	100
109322	22	3.5/3"	2.4"	Black	\$.78	\$.70	\$.63
102868	20	3/3"	2.2"	White	\$.78	\$.70	\$.58
151918	18	6/6"	2.4"	White	1.19	1.02	.78
108784	16	21/26"	2.2"	Black	1.79	1.63	1.49
108791	14	19/25"	2.5"	Black	1.91	1.74	1.26

## 5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size(L)	1	10	100
109330	20	Red	2.2"	\$.69	\$.56	\$.45

## Fuse Clips

- Low contact resistance • Low profile
- Withstands shock/vibration
- Prepackaged: please order in increments of 10



Part No.	Description	Fig.	Size (H" x W" x D" x P")	10	100	1000
102860	5mm, front leads	1	.37 x .25 x .21 x .19	\$.162	\$.122	\$.068
102842	1/4", front leads (10A)	2	.32 x .27 x .25 x .23	\$.09	\$.08	\$.07

## Fuse Holders & Fuse Clips

### Bowed Tab PCB

- Clip material: spring brass
- Ear style



Part No.	Product No.	1	10	100
1708748	102079	\$.255	\$.245	

### Subminiature Fuse Holders

#### No. 560 for TR5®/TE5® Fuses

- PCB Mount, 5.08mm pin spacing
- Terminals: tinned copper alloy
- Electrical rating: 250V, 6.3A, 1.6W
- Holder: thermoplastic UL94V-0, polyester PCT



Part No.	Product No.	1	10	100
1716887	5600000100	\$.62	\$.57	\$.42
1716895	5600000131	\$.46	\$.43	

#### No. 559 for TR5®/TE5® Leadfree

- PCB Mount, 7.18mm pin spacing
- Electrical rating: 250V, 6.3A, 1.6W
- Holder: black thermoplastic, UL94V-0, polyamide PA 6.6
- Terminals: tinned copper alloy



Part No.	Product No.	1	10	100
1716844	5590000000	\$.379	\$.346	

## Vertical PCB Mount Fuse Holders for Micro® Fuse or PICO® II Fuse

- Terminals: copper alloy
- Molded parts: white thermoplastic
- Electrical rating: 5A for voltage up to 125V



Part No.	Product No.	Term. Plating	1	10	100
1710725	281005	Silver	1.95	1.82	1.50
1710741	281008	Tin	1.99	1.89	1.56

## 3AG Omni-Blok® Molded Base Type Fuse Block

- Dielectric strength: 1500V min.
- Clip/terminals: tin-plated spring brass • Terminal: solder
- Base: glass reinforced thermoplastic, gray, UL94V-0



Part No.	Product No.	Curr. Rating	1	10	100
1711947	354001-GY	15A, 300V	\$.82	\$.76	\$.64

## Shock-Safe Fuse Holders for 3AG or 5mm x 20mm Fuses

- Electrical rating: (UL) – 16A, 250V; (CSA) – 15A, 250V; (VDE) – 10A, 250V
- Insulation resistance: 10,000Mfl min. @ 500VDC
- Dielectric strength: 4000V min.
- Terminals: brass, tin plated • PCB mounting
- Contact resistance: less than 5mfl average @ 1A
- Molded body: glass filled thermoplastic, UL94V-0
- Knob: screwdriver slot, fuse extractor type with nickel-plated copper alloy inserts, spring loaded, bayonet style • Approvals: UL/CSA/VDE
- Knob material: gray or black glass filled thermoplastic, UL94V-0



1711761/1711787: Knob only; 1711779: Assembly

Part No.	Product No.	Fuse Size	1	10	100
1711761	345101-020	1/4" x 1/4"	\$1.01	\$.94	\$.78
1711779	345121	5mm x 20mm	3.75	3.51	2.92
1711787	345121-020	5mm x 20mm	1.43	1.35	1.22

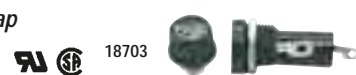
More Littelfuse® Fuse Holders & Clips available at [www.Jameco.com](http://www.Jameco.com)

⬆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## Panel Mount Fuse Holders

### 1/4" x 1/4" Standard Thumbscrew Cap

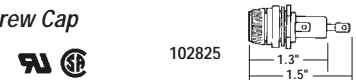
- Straight solder terminal; 10A @ 250VAC



Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120994	—	1.95"L x .71"Dia.	.58"Dia. (Double D-style)	\$.95	\$.83	\$.66	\$.59
18703	UL/CSA	2.05"L x .71"Dia.	.58"Dia. x .52"Flat (D-style)	1.59	1.35	1.15	.99

### 5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal
- Size: 1.5"L x 0.6"Dia.



Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150464	—	6A @ 250VAC	.50"Dia. x .43"Flat	\$1.09	\$.93	\$.81	\$.62
102825	UL/CSA	10A @ 250VAC	.50"Dia.	1.19	.99	.87	.71

## Ceramic Resonator

- Frequency accuracy:  $\pm 0.5\%$  @ 25°C
- Wide frequency range
- Extended temperature range: -20°C to +85°C
- Temperature stability:  $\pm 0.3\%$
- Aging for 10 years:  $\pm 0.3\%$
- Withstanding voltage (5 sec.): 100V max.
- Resonant resistance: 55Ω max.
- High stability
- Low profile
- Drive level: 0.5mw



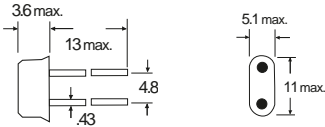
Part No.	Comparable to:	Frequency (MHz)	Pins	Pricing
324671	TZTT-20.00MT	20.0	3	1 10 100
				\$.32 \$288 \$2.23

[www.Jameco.com](http://www.Jameco.com)

For additional Fuses, Fuse holders, Fuseclips & Ceramic Resonators, visit our website today!

## HC49/S Case (Low Profile Crystals)

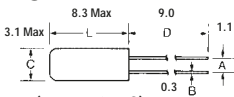
- Frequency range: 3.5 to 70.0MHz
- Operating temperature: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging:  $\pm 5$ ppm/year max.
- Frequency stability tolerance:  $\pm 50$ ppm



Part No.	Comparable:	Freq. (MHz)	Imped.	Max. Resist.	Pricing	
					1	10
137832	CY4LP	4.000	17pF	120 $\Omega$	\$ .46	\$ .345
137875	CY11.05LP	11.0592	Series	50 $\Omega$	1.05	.81
137891	CY16LP	16.000	Series	40 $\Omega$	.42	.384

## Tuning Fork

- Operating temperature range: -10°C to +60°C
- Frequency tolerance:  $\pm 20$ ppm
- Aging for first year:  $\pm 3$ ppm (max. +25°C)
- Frequency: 32.768kHz • Drive level: 1mW



Part No.	Comparable to:	Imped.	1	10	100	1000
14584	CY32.76	10.5pF	\$ .89	\$ .79	\$ .69	\$ .52

## HC49/U Type Crystals

- Frequency tolerance @ 25°C:  $\pm 30$ ppm
- Frequency stability:  $\pm 50$ ppm
- Operating temperature: -20°C to 70°C
- Dimensions: 11.05mmW (max.) x 13.46mmH (max)

\* Prepackaged: please order in increments of 5

Part No.	Prod. No.	Freq.	Imped.	1	5	100
1592546	FOX18S	1.8432	13pF	\$1.39	\$1.23	\$1.04
1592571	FOX040	4.0	20pF	*	.459	.37
1592669	FOX07320	7.3728	20pF	*	.36	.34
1592677	FOX080	8.0	Series	*	.32	.35
1592685	FOX08020	8.0	20pF	*	.46	.37
1592765	FOX14720	14.7456	20pF	*	.35	.33
1592773	FOX16020	16.0	20pF	*	.45	.37

## 5V HCMOS SMD Oscillators

- Supply voltage: 5V
- Tri-state enable/disable
- Oper. temp.: -10°C to 70°C
- Frequency stability:  $\pm 100$ ppm • HCMOS/TTL output
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD

Part No.	Prod. No.	Freq.	Imped.	1	10	100
1592255	F3345-160	16MHz	25mA	\$4.45	\$3.88	\$3.28
1592263	F3345-200	20MHz	25mA	1.69	1.60	1.53
1592301	F3345-400	40MHz	45mA	4.45	3.88	3.28

## 3.3V HCMOS SMD Oscillators

- 3.3V operation • HCMOS output
- Standby function
- Frequency stability:  $\pm 100$ ppm
- Operating temp.: -10°C to 70°C
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD

Part No.	Prod. No.	Freq.	Input Current	1	10	100
1592415	F4100-200	20MHz	15mA	\$4.65	\$4.35	\$4.21
1592440	F4100-330	33.33MHz	20mA	4.65	4.35	4.21
1592466	F4100-400	40MHz	20mA	4.65	4.35	4.21
1592491	F4100-500	50MHz	20mA	4.75	4.48	4.33
1592511	F4100-600	60MHz	25mA	1.79	1.65	1.55
1592520	F4100-666	66.66MHz	25mA	5.39	5.05	4.88

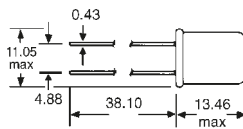
♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Crystals

- Frequency calibration tolerance:  $\pm 50$ ppm @ 25°C
- Drive level: 4.0mW maximum
- Frequency stability tolerance:  $\pm 50$ ppm from -10°C to +60°C



HC49/U (HC18/U) Case  
Dimensions in millimeters

Quantity SAVE

Part No.	Frequency (MHz)	Impedance	Pricing		
			1	10	100
324275	2.0	20pF	\$ .95	\$ .90	\$ .82
324364	4.0	Series	.31	.284	.274
324110	11.0592	32pF	.22	.199	.175
324267	20.0	20pF	.34	.299	.266

## Other Manufacturers

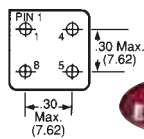
Part No.	Frequency (MHz)	Impedance	1	10	100
102613	1.8432	18pF	\$1.19	\$1.10	\$ .82
101274	2.4576	32pF	.71	.68	.54
14525	3.2768	18pF	.32	.292	.266
14533	3.579545	18pF	.40	.37	.29
14592	4.0	20pF	.59	.54	.41
14728	8.0	Series	.38	.35	.31
14381	10.0	Series	.79	.69	.59
120061	11.0592	Series	.80	.71	.68
14402	12.0	Series	.80	.68	.50
14517	20.0	Series	.79	.69	.59

## TTL Oscillators (Half Can)

- Input voltage: +5VDC  $\pm 0.5$ VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 676385, below left
- Frequency stability  $\pm 100$ ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.



325497



Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
				1	10	100
325526	4.0	15mA	10ns	\$1.59	\$1.46	\$1.08
354829	10.0	25mA	5ns	1.65	1.53	1.22
325665	20.0	30mA	10ns	1.65	1.47	1.22
325730	40.0	70mA	5ns	1.65	1.48	1.29
325737	48.0	70mA	5ns	1.39	1.18	.89

## Other Manufacturers

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	1	10	100
325462	1.0	15mA	10ns	\$1.49	\$1.34	\$1.17
325489	1.8432	15mA	10ns	1.49	1.34	1.17
102779	10.0	45mA	6ns	1.75	1.58	1.25

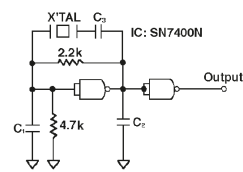
## Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins • 8-pin
- Good for prototyping and PCB mounting



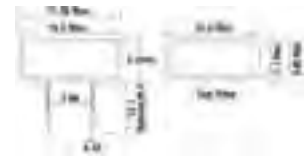
Part No.	Description	1	10	100
676385	Half can size	\$ .51	\$ .42	\$ .33

- Operating temperature: -10°C to +60°C
- Shunt capacitance: 7pF maximum
- ♣ Blue Part No. = Limited Quantity Available



C1: 150-470 pF  
C2: 220-820 pF  
C3: Match crystal impedance

Application Reference (4-14MHz) (parallel resonance)



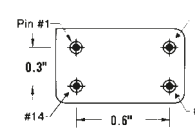
HC49/US Low Profile Case

## HC49/US Low Profile Case

Part No.	Frequency (MHz)	Impedance	Pricing		
			1	10	100
324962	4.0	20pF	\$ .36	\$ .325	\$ .31
325113	18.432	20pF	.47	.428	.384
325068	20.0	20pF	.36	.325	.31
325025	24.0	20pF	.62	.57	.50

## TTL Oscillators (Full Can)

- Input voltage: +5VDC  $\pm 0.5$ VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 133006, web
- Frequency stability  $\pm 100$ ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.



Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
				1	10	100
354889	4.0	15mA	10ns	\$1.55	\$1.40	\$1.28
354897	8.0	30mA	10ns	1.35	1.22	1.17
354845	16.0	30mA	10ns	1.47	1.32	1.05
354917	20.0	30mA	10ns	1.65	1.47	1.41

## Other Manufacturers

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	1	10	100
27861	1.0	7mA	15ns	\$2.49	\$2.20	\$1.43
27879	1.8432	7mA	15ns	2.39	2.15	1.95
27924	2.0	7mA	15ns	1.47	1.31	.99
27967	4.0	7mA	10ns	1.99	1.79	1.59
27991	8.0	15mA	15ns	2.39	2.15	1.91
27887	10.0	15mA	10ns	1.99	1.79	1.59
27895	12.0	15mA	10ns	1.28	1.20	1.11
27908	16.0	15mA	10ns	1.50	1.35	1.01
27932	20.0	17mA	10ns	2.15	1.88	1.46
76822	33.0	18mA	6ns	1.99	1.69	1.27
76857	100.0	25mA	3ns	2.49	2.25	1.95

More Crystals & Oscillators available at  
[www.Jameco.com](http://www.Jameco.com)

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**Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion**

Each kit includes a 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319610), 30 adhesive labels for drawers to identify parts in kit, and all the electronic components listed in each kit.



81875 (Capacitor Kit)

20-drawer  
component  
cabinet with  
every kit!

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Cabinet: ABS-Black
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill?  
Just call  
1-800-831-4242



81832 (Resistor Kit)

## Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 values)  $\pm 20\%$  Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100 $\mu$ F @ 50V	1000 $\mu$ F @ 16V	1 $\mu$ F @ 50V	3.3 $\mu$ F @ 50V	22 $\mu$ F @ 50V
220 $\mu$ F @ 25V	2200 $\mu$ F @ 25V	1 $\mu$ F @ 100V	4.7 $\mu$ F @ 50V	47 $\mu$ F @ 50V
470 $\mu$ F @ 25V	3300 $\mu$ F @ 25V	2.2 $\mu$ F @ 50V	10 $\mu$ F @ 50V	100 $\mu$ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81867	240 pcs. Radial Capacitor kit	5.3	\$36.25	\$34.35

SAVE \$5

## Axial Electrolytic Capacitor Kit

Includes 140 pcs. (10 values)  $\pm 20\%$  Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47 $\mu$ F @ 50V	220 $\mu$ F @ 50V	1000 $\mu$ F @ 25V	1 $\mu$ F @ 50V	10 $\mu$ F @ 50V
100 $\mu$ F @ 50V	470 $\mu$ F @ 50V	2200 $\mu$ F @ 16V	4.7 $\mu$ F @ 50V	2.2 $\mu$ F @ 50V
Part No.	Description	Wt. (lbs.)	1	10
81875	140 pcs. Axial Capacitor kit	5.3	\$45.54	\$40.98

SAVE \$11

## Mylar Capacitor Kit

Includes 280 pcs. (10 values) 100V  $\pm 10\%$  Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001 $\mu$ F	.022 $\mu$ F	.047 $\mu$ F	.47 $\mu$ F	.01 $\mu$ F
.0047 $\mu$ F	.033 $\mu$ F	.22 $\mu$ F	1 $\mu$ F	.1 $\mu$ F
Part No.	Description	Wt. (lbs.)	1	10
81883	280 pcs. Mylar Capacitor kit	5.1	\$46.89	\$44.45

SAVE \$12

## Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 values)  $\pm 20\%$  Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1 $\mu$ F @ 35V	1 $\mu$ F @ 25V	3.3 $\mu$ F @ 35V	10 $\mu$ F @ 16V	22 $\mu$ F @ 16V
.22 $\mu$ F @ 35V	1 $\mu$ F @ 35V	4.7 $\mu$ F @ 35V	10 $\mu$ F @ 35V	33 $\mu$ F @ 25V
.47 $\mu$ F @ 35V	2.2 $\mu$ F @ 16V	6.8 $\mu$ F @ 35V	15 $\mu$ F @ 25V	47 $\mu$ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81841	150 pcs. Tantalum Capacitor kit	4.8	\$87.95	\$79.95
130260	Refill for 81841 (150 pcs.)	0.3	71.94	64.74

SAVE \$25

## Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 values) 50V  $\pm 20\%$  Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022 $\mu$ F	.01 $\mu$ F
22pF	100pF	.001 $\mu$ F	.047 $\mu$ F	.1 $\mu$ F
Part No.	Description	Wt. (lbs.)	1	10
81859	520 pcs. Ceramic Capacitor kit	5.0	\$38.45	\$34.62
130232	Refill for 81859 (520 pcs.)	0.3	23.45	20.95

SAVE \$14

## Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 values) 50V  $\pm 20\%$  Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001 $\mu$ F	.047 $\mu$ F	.47 $\mu$ F	.01 $\mu$ F
100pF	.0022 $\mu$ F	.22 $\mu$ F	1 $\mu$ F	.1 $\mu$ F
Part No.	Description	Wt. (lbs.)	1	10
171475	280 pcs. Monolithic Capacitor kit	5.0	\$31.15	\$29.25

SAVE \$6

## 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 $\Omega$	330 $\Omega$	1.2k $\Omega$	2.7k $\Omega$	15k $\Omega$	47k $\Omega$	100 $\Omega$	4.7k $\Omega$
47 $\Omega$	390 $\Omega$	1.5k $\Omega$	3.3k $\Omega$	20k $\Omega$	470k $\Omega$	220 $\Omega$	10k $\Omega$
150 $\Omega$	470 $\Omega$	2k $\Omega$	5.1k $\Omega$	22k $\Omega$	1M $\Omega$	1k $\Omega$	100k $\Omega$
270 $\Omega$	680 $\Omega$	2.2k $\Omega$	5.6k $\Omega$	33k $\Omega$	10M $\Omega$		
Part No.	Description	Wt. (lbs.)	1	10			
81832	540 pcs. 1/4-watt Resistor kit	4.9	\$31.59	\$28.19			
103166	Refill for 81832 (540 pcs.)	0.2	12.95	11.49			

## 1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 $\Omega$	330 $\Omega$	1.5k $\Omega$	3.3k $\Omega$	15k $\Omega$	47k $\Omega$	100 $\Omega$	4.7k $\Omega$
47 $\Omega$	390 $\Omega$	2k $\Omega$	5.1k $\Omega$	22k $\Omega$	470k $\Omega$	220 $\Omega$	10k $\Omega$
150 $\Omega$	470 $\Omega$	2.2k $\Omega$	5.6k $\Omega$	27k $\Omega$	1M $\Omega$	1k $\Omega$	100k $\Omega$
270 $\Omega$	680 $\Omega$	2.7k $\Omega$	6.8k $\Omega$	33k $\Omega$	10M $\Omega$		
Part No.	Description	Wt. (lbs.)	1	10			
107879	540 pcs. 1/2-watt Resistor kit	5.1	\$29.95	\$26.95			
107853	Refill for 107879 (540 pcs.)	0.4	15.69	14.17			

## 1/2-Watt Single Turn Cermet Pot Kit

See page 87 (63P Series) for photos and specs.

Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500 $\Omega$	63P2k $\Omega$	63P10k $\Omega$	63P50k $\Omega$	63P500k $\Omega$
63P1k $\Omega$	63P5k $\Omega$	63P20k $\Omega$	63P100k $\Omega$	63P1M $\Omega$
Part No.	Description	Wt. (lbs.)	1	10
85032	100 pcs. single turn Pot kit	4.9	\$77.95	\$73.45

SAVE \$17

## 3/4-Watt 15 Turn Cermet Pot Kit

See page 87 (43P Series) for photos and specs.

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500 $\Omega$	43P2k $\Omega$	43P10k $\Omega$	43P50k $\Omega$	43P500k $\Omega$
43P1k $\Omega$	43P5k $\Omega$	43P20k $\Omega$	43P100k $\Omega$	43P1M $\Omega$
Part No.	Description	Wt. (lbs.)	1	10
85041	100 pcs. 15 turn Pot kit	4.9	\$89.95	\$79.95

SAVE \$25

We're Listening to  
What You Need

Our goal is to provide you with more of what you want.

Let us know how we can better serve your  
electronics needs. Please send your requests to

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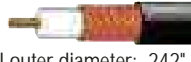
## Belden Coaxial Cable

Compare Belden coaxial cables with those from the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit [www.Jameco.com/Belden](http://www.Jameco.com/Belden).

### 75Ω Standard Analog Video Cable RG59/U Type



- 23 AWG solid .023" bare copper  
 • 95% bare copper braid shield  
 • Polyethylene insulation and black PVC jacket  
 • Nominal outer diameter: .242"  
 • Nominal capacitance: 67.3pF/m  
 • Nominal impedance: 75Ω  
 • Color: black

Part No.	Product No.	Description	1	5	10
732902	8241-100-10 	100' reel .....	\$64.50	\$60.56	\$55.83
732911	8241-500-10 	500' reel .....	169.86	159.38	158.20



### Standard Analog Video Cable 75Ω Miniature Coax




- 27 AWG stranded (7x35) .017" bare copper-covered steel  
 • Polyethylene insulation and black PVC jacket  
 • Nominal capacitance: 67.3pF/m  
 • Color: black  
 • Nominal impedance: 75Ω  
 • Nominal outer diameter: .100"

Part No.	Product No.	Description	1	5	10
734174	8218-U500-10 	500' unreel box .....	\$256.99	\$239.99	\$233.65
734173	8218-U1000-10 	1000' unreel box .....	397.39	386.99	371.15






### Broadband Coax (Headend/Video Cables)

- 20 AWG solid .031" bare copper  
 • Nominal capacitance 68.9pF/m  
 • Color: black  
 • Nominal outer diameter: .305"  
 • Nominal impedance: 75Ω  
 • 98% tinned copper double braid shield  
 • Polyethylene insulation and jacket

Part No.	Product No.	Description	1	5	10
732962	8281-100-10 	100' reel .....	\$99.99	\$89.99	\$79.99
732980	8281-500-10 	500' reel .....	552.25	501.82	484.72
732988	8281-1000-10 	1000' reel .....	1,087.67	948.18	900.77



- 20 AWG solid .032" solid bare copper  
 • Duofoil® +95% tinned copper braid shield  
 • Gas injected foam HDPE insulation and PVC jacket  
 • Nominal capacitance: 53.5pF/m  
 • Nominal impedance: 75Ω  
 • Nominal outer diameter: .234"  
 • Color: black

Part No.	Product No.	Description	1	5	10
734087	1505A-100-10 	100' reel .....	\$49.99	\$47.49	\$44.99
734089	1505A-500-10 	500' reel .....	214.35	192.80	183.62
734088	1505A-1000-10 	1000' reel .....	435.29	382.27	364.07



## Belden Paired Cable





Belden paired cables allow balanced signal transmission, which results in lower cross talk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit [www.Jameco.com/Belden](http://www.Jameco.com/Belden).

- Chrome PVC jacket  
 • Twisted pairs  
 • Overall 100% BELDFOIL® shield (for shielded cables)

### Audio, Control, and Instrumentation Cable Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation  
 • Paper wrap  
 • Black PVC jacket  
 • Nominal capacitance: 111pF/m  
 • Nominal outer diameter: 0.138"




Part No.	Product No.	No. of Pairs	Description	1	5	10
733112	8451-100-10 	1	100' reel (black) .....	\$23.99	\$22.31	\$21.76
734063	8451-U500-10 	1	500' unreel box (black) ..	118.75	107.91	93.75
733139	8451-1000-10 	1	1000' reel (black) .....	197.09	177.39	159.65
734062	8451-U1000-10 	1	1000' unreel box (blk) ..	243.42	223.14	205.95



### Audio, Control, and Instrumentation Cable Non-Plenum (Cont.)

20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire





- Semi-rigid PVC insulation and overall chrome PVC jacket  
 • Nominal capacitance: 180pF/m  
 • Nominal outer diameter: 0.300"  
 • Color: chrome

Part No.	Product No.	No. of Pairs	Description	1	5	10
734260	9402-100-60 	2	100' reel .....	\$77.99	\$74.99	\$69.99
734262	9402-U500-60 	2	500' unreel box ....	491.15	458.39	425.64
734261	9402-1000-60 	2	1000' reel .....	1,190.49	1,090.47	1,054.55



18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire





- Tinned copper, twisted pair  
 • Color: chrome  
 • Polyethylene insulation with chrome PVC jacket  
 • Nominal capacitance: 79pF/m  
 • Nominal outer diameter: 0.222"

Part No.	Product No.	No. of Pairs	Description	1	5	10
734185	8760-100-60 	1	100' reel .....	\$34.99	\$32.49	\$29.99
734187	8760-500-60 	1	500' reel .....	166.19	150.81	143.26
734189	8760-U500-60 	1	500' unreel box ....	150.39	143.26	136.44
734186	8760-1000-60 	1	1000' reel .....	341.49	326.29	312.89



22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire

- Polypropylene insulation  
 • Nominal capacitance: 115pF/m  
 • Nominal outer diameter: 0.168"  
 • Color: chrome




Part No.	Product No.	No. of Pairs	Description	1	5	10
734180	8723-100-60 	2	100' reel .....	\$32.69	\$31.15	\$29.67
734182	8723-500-60 	2	500' reel .....	173.99	140.99	130.69
734181	8723-1000-60 	2	1000' reel .....	272.65	267.32	262.08
734183	8723-U1000-60 	2	1000' unreel box ..	324.59	306.79	289.79



### Paired Line Level Analog Audio Cable

14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

- Polyethylene insulation  
 • Nominal capacitance: 79pF/m  
 • Nominal outer diameter: 0.355"  
 • Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
733172	8720-100-60 	1	100' reel .....	\$64.99	\$59.99	\$54.99
733190	8720-500-60 	1	500' reel .....	376.55	363.57	346.27
734066	8720-U500-60 	1	500' unreel box ....	500.39	467.74	435.11



[www.Jameco.com](http://www.Jameco.com)

For additional Belden Coaxial and Paired Cable visit our website today.

# Multi-Conductor, Speaker Cable & Hook-Up Wire

Color Code Legend			
New	Sale	Lower\$	QtySave

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.



## Belden Multi-Conductor Cable

### Multi-Conductor Audio, Control & Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: 0.199"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
733235	8771-100-60 R	3	100' reel .....	\$34.99	\$29.99	\$27.99
733243	8771-500-60 R	3	500' reel .....	163.85	160.65	157.44
734068	8771-U500-60 R	3	500' unreel box .....	149.99	142.31	134.39
733252	8771-1000-60 R	3	1000' reel .....	307.49	276.72	249.05
734067	8771-U1000-60 R	3	1000' unreel box ..	311.65	285.55	276.59

22 AWG stranded (7 x 30) unshielded

- PVC insulation
- Color: chrome



8442 Series



8443 Series



8444 Series



8445 Series

Part No.	Product No.	Conductors	Description	1	5	10
732996	8442-100-60 R	2	100' reel .....	\$22.39	\$20.29	\$18.43
733008	8442-500-60 R	2	500' reel .....	85.55	76.67	67.77
734055	8442-U500-60 R	2	500' unreel box .....	84.47	75.99	69.99
734054	8442-U1000-60 R	2	1000' unreel box ..	170.75	144.21	129.07
733024	8443-100-60 R	3	100' reel .....	30.15	28.66	27.25
733032	8443-500-60 R	3	500' reel .....	120.30	114.56	109.11
733059	8444-100-60 R	4	100' reel .....	32.65	30.58	27.65
733067	8444-500-60 R	4	500' reel .....	161.55	143.37	132.33
734059	8444-U500-60 R	4	500' unreel box .....	156.05	126.78	117.05
733075	8444-1000-60 R	4	1000' reel .....	273.09	252.80	232.52
733083	8445-100-60 R	5	100' reel .....	40.39	37.92	36.70
734061	8445-U500-60 R	5	500' unreel box .....	199.99	181.80	166.68
733104	8445-1000-60 R	5	1000' reel .....	385.65	368.92	350.48
734060	8445-U1000-60 R	5	1000' unreel box ..	397.49	353.75	328.19

20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: 0.218"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
734254	8772-U500-60 R	3	500' unreel box ..	\$169.85	\$161.77	\$154.07
734253	8772-U1000-60 R	3	1000' unreel box ..	321.75	314.07	308.15

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.246"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
733201	8770-100-60 R	3	100' reel .....	\$59.99	\$54.99	\$49.99
733219	8770-500-60 R	3	500' reel .....	264.75	250.44	241.88
734084	8770-U500-60 R	3	500' unreel box .....	264.15	247.89	239.99
733227	8770-1000-60 R	3	1000' reel .....	507.90	483.74	460.70
734083	8770-U1000-60 R	3	1000' unreel box ..	479.99	458.89	439.99



## Belden Speaker Cable

These speaker cables are used to connect receivers or power amplifiers to speakers & are also used for the internal wiring of the speakers. Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

### Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables

- 2-conductor stranded
- Clear PVC jacket
- Parallel (1) tinned (1) bare
- PVC insulation



18 AWG stranded (16 x 30)

Part No.	Product No.	Description	1	5	10
732574	9708-100-368 R	100' reel .....	\$30.90	\$29.44	\$28.04
734154	9708-U500-368 R	500' unreel box .....	181.95	172.33	162.77
732591	9708-1000-368 R	1000' reel .....	338.59	323.73	307.55
734081	9708-U1000-368 R	1000' unreel box .....	335.69	320.75	307.59

14 AWG stranded (19 x 27)

Part No.	Product No.	Description	1	5	10
732603	9717-100-368 R	100' reel .....	\$78.59	\$66.11	\$59.34
733430	9717-500-368 R	500' reel .....	299.99	289.99	279.99
732612	9717-1000-368 R	1000' reel .....	679.95	667.25	572.03

12 AWG stranded (65 x 30)

Part No.	Product No.	Description	1	5	10
732630	9718-100-368 R	100' reel .....	\$151.62	\$127.36	\$120.99
732646	9718-1000-368 R	1000' reel .....	1,598.85	1,518.95	1,442.95



## Belden Hook-Up Wire

### UL/CSA Dual Rated AWM Styles 1007/1569

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.

- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- Tinned copper
- PVC insulated
- Increments of 100' or 1000' reels



Use the color code chart below to replace the "xx" when ordering

02 – Brown	03 – Red	04 – Orange	05 – Yellow	06 – Green
08 – Violet	09 – Gray	10 – White	11 – Black	14 – Dark blue

e.g. 734602 – 7346 is the Jameco designation for 28 AWG stranded wire and 02 is for color brown

Part No.	Product No.	Description	1	5	10
7346xx	9928-100-xx R*	28 AWG (7 x 36) stranded .....	\$19.99	\$16.34	\$14.99
7345xx	9926-100-xx R	26 AWG (7 x 34) stranded .....	21.35	17.45	16.15
7344xx	9923-100-xx R**	24 AWG (7 x 32) stranded .....	22.45	22.28	21.10
7343xx	9921-100-xx R	22 AWG (7 x 30) stranded .....	26.19	25.37	24.55
7342xx	9919-100-xx R	20 AWG (7 x 28) stranded .....	32.19	31.20	30.21
7340xx	9916-100-xx R	16 AWG (26 x 30) stranded .....	53.99	48.96	44.50

\* Not available in gray \*\* Not available in orange, violet, gray or dark blue



## Bus Bar Hook-Up Wire

In accordance with performance requirements of Federal Specs. QQ-W343G.

- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
734169	8022-100 R	24 AWG, 100' reel .....	\$16.91	\$16.25	\$15.48
734170	8022-1000 R	24 AWG, 1000' reel .....	73.79	70.29	66.95
734167	8021-100 R	22 AWG, 100' reel .....	16.29	14.68	13.21
734168	8021-1000 R	22 AWG, 1000' reel .....	115.19	107.15	98.99
734165	8020-100 R	20 AWG, 100' reel .....	23.89	20.15	16.40
734166	8020-1000 R	20 AWG, 1000' reel .....	169.45	141.89	131.09

## More Wire and Cable on Web



Thousands of additional products available at [www.Jameco.com](http://www.Jameco.com).

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.

## JAMECO ValuePro UL 1007 Stranded Hook-Up Wire

300 Volts

- 80°C
- PVC insulation
- Temperature range: -40°C to +80°C
- CSA: TR-64
- Sold in 100' rolls



Part No.	Cross Ref.	AWG	Color	1	5	10
126085	UL1007-22-BK-C	22 (7x30)	Black	\$4.07	\$3.83	\$3.59
126034	UL1007-22-RD-C	22 (7x30)	Red	4.07	3.83	3.59
126077	UL1007-22-WH-C	22 (7x30)	White	3.55	3.33	3.12
310852	UL1007-22-GR-C	22 (7x30)	Green	4.65	4.35	4.08
310878	UL1007-22-YL-C	22 (7x30)	Yellow	7.99	7.49	6.99
125840	UL1007-20-BK-C	20 (10x30)	Black	12.59	12.11	11.45
125795	UL1007-20-RD-C	20 (10x30)	Red	9.99	9.49	8.99
125831	UL1007-20-WH-C	20 (10x30)	White	7.14	6.84	6.47
310894	UL1007-20-GR-C	20 (10x30)	Green	9.99	9.49	8.99
310915	UL1007-20-YL-C	20 (10x30)	Yellow	9.99	9.49	8.99
310922	UL1007-20-BL-C	20 (10x30)	Blue	6.89	6.60	6.24
125787	UL1007-18-BK-C	18 (16x30)	Black	7.99	6.99	6.49
125736	UL1007-18-RD-C	18 (16x30)	Red	11.99	11.49	10.99
125751	UL1007-18-WH-C	18 (16x30)	White	7.39	7.10	6.72
310932	UL1007-18-GR-C	18 (16x30)	Green	5.79	5.55	5.25
310949	UL1007-18-YL-C	18 (16x30)	Yellow	9.65	9.16	8.70
310958	UL1007-18-BL-C	18 (16x30)	Blue	11.99	11.49	10.99

## Solid Hook-Up Wire – 22 AWG

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test
- MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 242



Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36768	122BE/C	Blue	\$6.59	36776	122BE/K	Blue	\$49.99
36792	122BK-R/C	Black	6.59	36805	122BK/K	Black	49.99
36822	122G-R/C	Green	6.59	36840	122G/K	Green	49.99
36856	122R/C	Red	6.59	36864	122R/K	Red	49.99
36881	122W-R/C	White	6.59	36899	122W/K	White	49.99
36920	122Y/C	Yellow	6.59	36928	122Y/K	Yellow	49.99

## JUL UL 1430 Stranded Hook-up Wire

- Temperature rating: 105°C
- Voltage: 300V
- 18/20 AWG
- Average wall thickness: 0.016
- Sold in 100' rolls



Part No.	Gauge	Color	Strands	Dia. (in.)	Dia. (mm)	1	10	25
307918	18	Black	19 x 30	0.082	2.083	\$23.35	\$21.00	\$18.90
307926	18	Red	19 x 30	0.082	2.083	23.35	20.77	18.90
305015	18	Orange	7 x 26	0.082	2.083	23.94	21.54	19.38
307897	20	Black	7 x 28	0.070	1.778	23.94	21.54	19.38
307900	20	Red	7 x 28	0.070	1.778	23.94	21.54	19.38

## Kynar™ Wire-Wrap Wire – 30 AWG

- Assorted color coded insulation
- Used for prototyping
- Color coded Kynar™ (Polyvinylidene Fluoride) insulation
- Silver plated copper (solid conductor)
- UL 1423
- Temperature: -40°C to +125°C
- Passes UL VW-1 flame test
- Wire wrap tools, pg 228
- See pg 135 for sockets



22542

Part No.	Color	100 ft.	Part No.	Color	1000 ft.
22542	Blue	\$5.79	22551	Blue	\$31.19
22577	Black	5.89	22585	Black	31.19
22631	Red	5.99	22649	Red	31.19
22665	White	5.99	22673	White	34.79
22606	Green	5.99	22614	Green	34.79
22700	Yellow	5.79	22702	Yellow	31.49

## JAMECO ValuePro RG Type Bulk Coaxial Cable

- For ethernet, oscilloscopes

RG58/U & RG58A/U (50Ω):

- Nominal capacitance: 27pF/ft.; center resistance: 10.4Ω/1000ft. @ 77°F

RG174/U (50Ω):

- Nominal capacitance: 30.8pF/ft.; center resistance: 97Ω/1000ft. @ 77°F



Part No.	Cross Ref No.	Type	Description	Length	1	25	50
644771	10X1-041TH-100	RG58A/U	20 AWG stranded	100'	\$18.99	\$17.99	\$17.09
644789	10X1-041TH-1000	RG58A/U	20 AWG stranded	1000'	149.99	142.49	135.35
644818	RG174/U-100	RG174/U	26 AWG stranded	100'	18.99	17.99	17.09
644826	RG174/U-1000	RG174/U	26 AWG stranded	1000'	202.79	192.66	182.99

## JAMECO ValuePro 2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V



Part No.	Cross Ref. No.	Length	1	10	25
100280	224BK/C	100'	\$5.59	\$4.99	\$4.49
100299	224BK/K	1000'	49.99	44.89	39.59

## JAMECO ValuePro Twisted Paired Cable – 24 AWG

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Reduced EMI
- 80°C
- 300 V



Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911	224GW/C	Green/white	\$7.19	105807	224GW/K	Green/white	\$67.95
173164	224BW/C	Black/white	7.19	173156	224RW/K	Red/white	67.95
				173172	224BW/K	Black/white	67.95

## JAMECO ValuePro Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable
- PVC jacket
- 7 x 43 stranded
- Gray



Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	25	50
644674	300-840SL-1000	4	1000	\$29.99	\$28.49	\$27.05
644691	300-860SL-100	6	100	7.49	6.75	6.09
644703	300-860SL-1000	6	1000	49.99	47.49	45.09
644720	300-880SL-100	8	100	9.99	9.49	8.99
644738	300-880SL-1000	8	1000	61.99	58.89	55.95

## JAMECO ValuePro Category 5e Network Cable

- 4 twisted pairs
- Insulation: polyethylene
- Nom. OD.: 0.189"
- Nom. impedance: 100
- UTP



Solid: uses modular plug P/N 119343, pg 107

Stranded: uses modular plug P/N 79281, pg 107

- Prepackaged and priced in increments of 25', 100' or 1000'

### 24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Cross Ref. No.	Description	Color	Length (ft.)	1	25
644551	10X5-701TH-100	Solid	Gray	100	\$10.75	\$10.38
644560	10X5-701TH-1000	Solid	Gray	1000	110.15	98.28
645722	10X5-704TH-100	Solid	Blue	100	16.99	16.15
645731	10X5-704TH-1000	Solid	Blue	1000	99.99	94.99
644586	10X5-801TH-100	Stranded	Gray	100	21.59	19.43
644594	10X5-801TH-1000	Stranded	Gray	1000	159.99	143.99
644615	10X5-804TH-100	Stranded	Blue	100	21.59	19.43
644623	10X5-804TH-1000	Stranded	Blue	1000	159.99	151.99
645765	10X5-805TH-1000	Stranded	Red	1000	159.99	143.99
645790	10X5-802TH-1000	Stranded	Black	1000	159.99	143.99
645829	10X5-806TH-1000	Stranded	Yellow	1000	159.99	143.99

Call for OEM pricing

## Multiconductor Shielded Computer Communication Cable – 24 AWG

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V
- 24 AWG (7 x 32 AWG)
- Shielded 100% w/ aluminum mylar
- Color: gray
- Drain wire
- Prepackaged and priced in increments listed below



Part No.	Cross Ref. No.	Conductors	Diameter	Length (ft.)	1	25
644383	SC4-25	4	0.20"	25	\$5.59	\$5.29
644391	SC4-100	4	0.20"	100	20.05	19.05
644404	SC4-1000	4	0.20"	1000	167.99	159.59
644412	SC9-25	9	0.23"	25	13.15	12.50
644421	SC9-100	9	0.23"	100	39.55	37.57
644439	SC9-1000	9	0.23"	1000	269.99	256.49
644447	SC15-25	15	0.28"	25	17.49	16.78
644455	SC15-100	15	0.28"	100	58.75	55.86
644463	SC15-1000	15	0.28"	1000	515.99	490.19
644471	SC25-25	25	0.37"	25	22.25	21.15
644480	SC25-100	25	0.37"	100	85.19	80.94
644498	SC25-500	25	0.37"	500	589.99	560.49



## Flat Ribbon Cable

- Designed for general purpose interconnect applications
- Insulation: PVC – polyvinyl chloride
- Insulation resistance: >10,000MΩ
- Voltage rating: 300V<sub>RMS</sub>
- Dielectric withstanding voltage: 2,000V<sub>RMS</sub>
- 28AWG stranded (7 x 36) tinned copper
- Current rating: 1A/conductor
- Nom. conductor DC resistance: 68.2Ω/1000ft.
- Length: 100 ft. prepackaged
- 0.050" pitch



### Gray

Part No.	Product No.	Conductors	1	2	5
689311	9L28010-H100-08	10	\$26.99	\$26.49	\$24.12
689320	9L28015-H100-08	15	42.19	37.88	34.46
689338	9L28016-H100-08	16	48.75	44.53	40.51
689346	9L28020-H100-08	20	61.15	55.99	50.94
689354	9L28024-H100-08	24	72.85	65.46	59.55
689362	9L28025-H100-08	25	85.99	78.08	71.02
689371	9L28026-H100-08	26	80.85	73.42	66.78
689389	9L28034-H100-08	34	106.79	97.00	88.24
689397	9L28036-H100-08	36	112.25	100.87	91.75
689400	9L24037-H100-08	37	107.45	102.43	93.17
689418	9L24040-H100-08	40	115.05	109.72	99.80
689426	9L24050-H100-08	50	149.59	144.95	140.39
689434	9L24060-H100-08	60	173.49	155.88	141.79
689442	9L24064-H100-08	64	193.99	174.29	158.52

### Rainbow (Multi-Color)

Part No.	Product No.	Conductors	1	2	5
689451	9R28010-000-100	10	\$72.89	\$65.13	\$59.58
689469	9R28014-000-100	14	103.19	92.17	84.32
689477	9R28016-000-100	16	111.95	106.16	97.12
689485	9R28020-000-100	20	140.95	137.64	121.58
689493	9R28024-000-100	24	175.49	156.79	143.42
689506	9R28025-000-100	25	184.19	164.57	150.53
689514	9R28026-000-100	26	191.15	170.75	156.19
689522	9R28034-000-100	34	247.79	221.36	202.49
689531	9R28037-000-100	37	239.45	230.50	222.25
689549	9R28040-000-100	40	292.69	261.50	239.22
689557	9R28050-000-100	50	347.09	329.16	301.12
689565	9R28060-000-100	60	440.55	393.56	360.02
689573	9R28064-000-100	64	468.15	418.23	382.59

⚡ Blue Part No. = Limited Quantity Available

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Multicolor Flat Ribbon Cable – 28 AWG

- Standard 10-color repeat sequence
- 28 AWG (7 x 36)
- Center spacing: 0.05"
- Voltage rating: 300V
- Temperature rating: -20°C to +80°C
- Prepackaged and priced in increments listed below
- Stranded copper wire



Part No.	Cross Ref. No.	Conductors	Length	1	25	50
643508	28RC10-25	10	25'	\$10.07	\$9.06	\$8.16
643516	28RC10-100	10	100' reel	27.55	25.39	24.57
643541	28RC16-25	16	25'	16.14	14.50	13.06
643559	28RC16-100	16	100' reel	52.19	46.95	42.26
643583	28RC20-25	20	25'	16.79	15.11	13.60
643591	28RC20-100	20	100' reel	65.25	58.70	52.83
643621	28RC25-25	25	25'	20.15	19.14	18.20
643639	28RC25-100	25	100' reel	59.99	56.99	54.15
643671	28RC34-100	34	100' reel	89.55	85.08	80.82
643701	28RC40-25	40	25'	40.29	36.26	32.64
643719	28RC40-100	40	100' reel	105.99	101.99	98.99
643743	28RC50-25	50	25'	50.34	45.30	40.78
643751	28RC50-100	50	100' reel	163.15	146.75	132.11

## Gray Flat Ribbon Cable – 28 AWG

- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC)
- Temperature rating: -20°C to +80°C
- Center spacing: 0.05"
- Voltage rating: 300V
- 28 AWG (7 x 36)
- Stranded copper wire
- Prepackaged and priced in increments listed below



Part No.	Cross Ref. No.	Conductors	Length	1	25	50
643815	171-10-100	10	100' reel	\$15.18	\$14.51	\$13.85
643840	171-16-25	16	25'	8.79	8.39	7.99
643858	171-16-100	16	100' reel	23.99	23.37	22.79
643891	171-20-100	20	100' reel	30.69	27.63	24.86
643911	171-25-10	25	10'	5.99	5.75	5.49
643938	171-25-100	25	100' reel	35.22	33.53	31.94
643989	171-26-100	26	100' reel	34.38	32.67	31.04
644041	171-34-25	34	25'	18.69	17.85	16.99
644050	171-34-100	34	100' reel	43.55	41.36	39.29
644092	171-37-100	37	100' reel	46.89	44.56	42.33
644113	171-40-10	40	10'	8.87	8.39	7.98
644121	171-40-25	40	25'	20.99	19.91	18.90
644130	171-40-100	40	100' reel	57.59	54.71	51.95
644156	171-50-10	50	10'	8.10	7.67	7.26
644164	171-50-25	50	25'	17.39	16.50	15.66
644172	171-50-100	50	100' reel	66.54	63.18	60.03
644201	171-60-25	60	25'	23.70	22.50	21.35
644210	171-60-100	60	100' reel	83.10	77.81	73.90





## 3M Flat Ribbon Cable

- 0.05" centers, 28AWG (7x36) tinned stranded copper
- Insulation material: polyvinyl chloride (PVC)
- Voltage rating: 300V
- Impedance: 102Ω unbalanced
- Capacitance: 14.47pF/ft.
- Inductance: 0.15μH/ft.
- Temp. rating: -20°C to 105°C
- Color: gray
- Length: 100 ft. prepackaged

NEW

Part No.	Product No.	Conductors	1	5	10
1643788	3365/14	14	\$28.85	\$27.39	\$26.18
1643796	3365/16	16	35.35	32.14	29.91
1643809	3365/20	20	44.19	39.14	37.40
1643817	3365/26	26	57.45	52.21	48.61
1643833	3365/40	40	82.89	78.74	74.80
1643841	3365/50	50	110.45	100.43	93.48

## Disk Drive & SCSI Cables

				<div>Quantity <b>SAVE</b></div>		
32918	185076	72806	32715			
Part No.	Description	Length	1	10	100	
32918	34-pin header socket ribbon cable for floppy to card	23" .....	\$3.49	\$2.97	\$2.22	
185076	40-pin IDE hard drive cable to card	14" .....	.95	.71	.53	
72806	Two 40-pin header socket ribbon cable for IDE drive	18" .....	4.25	3.62	2.71	
32715	50-pin header socket ribbon cable SCSI-I (18")	18" .....	4.29	3.80	3.22	

## 3.5" Disk Drive Power Adapter Cable

- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies

Part No.	Length	AWG	1	10	100
28397	3.5'	22	\$3.29	\$2.98	\$2.58

## 3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females

Part No.	Drive	AWG	Length	1	10	100
28354	5.25"	18	5'	\$3.54	\$3.23	\$2.87
277528	5.25"	20	6'	2.85	2.59	1.94
72304	3.5"	22	5'	3.30	2.99	2.63

## AT/ATX Power Supply Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply

Part No.	Length	AWG	1	10	100
170238	15'	18	\$6.49	\$6.16	\$5.83

## Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts

Part No.	Description	1	10	100
12408	4' DB25 M-F	\$5.09	\$4.49	\$4.08
208582	6' DB9 M-F	4.75	4.26	3.83

## PS/2 Keyboard Extension Cables

- 6-pin mini DIN female-to-male
- Color: beige

Part No.	Description	1	10	100
28549	PS/2 6' non-coiled	\$4.35	\$3.89	\$3.49
111053	PS/2 10' non-coiled	5.49	4.99	4.39

## Macintosh® Printer Cables

Part No.	Description	1	10	50
10604	6' mini DIN8M	\$3.39	\$3.22	\$3.05
130025	10' mini DIN8M	5.99	5.39	4.85

## IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.

- Color: gray

Part No.	Description	Wt. (lbs.)	1	10	25
73155	1 meter	0.8	\$39.39	\$35.41	\$31.85
115781	2 meter	1.2	38.35	34.53	31.25
115802	4 meter	2.0	42.85	39.81	35.15

## Serial Null Modem Cables

- Molded type connectors
- Color: gray
- 181404/180698 Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7
- 181438 Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)
- 180582 Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem)
- 180742 Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8

Part No.	Description	Wt. (lbs.)	1	10	50
181404	6' DB9 F to DB9 F	0.3	\$5.69	\$5.09	\$4.59
180698	10' DB9 F to DB9 F	0.4	6.79	6.09	5.49
181438	6' DB25 M to DB9 F	0.4	4.95	4.49	3.95
180582	10' DB25 M to DB9 F	0.4	6.69	5.69	4.26
180742	10' DB25 F to DB9 F	0.5	7.39	6.65	5.99

## VGA Monitor Cable

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDD15 male to male

Part No.	Description	1	10	100
66174	6' monitor cable	\$7.79	\$7.07	\$6.35
148523	10' monitor cable	7.25	6.49	5.79

## 9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles

Part No.	Description	1	10	100
66157	6' DB9 M-M	\$5.15	\$4.58	\$3.44

## VGA Monitor Extension Cables

- Extends VGA monitor cable; HDD15 male-to-female
- IBM PC/XT and higher compatibles
- 134042: HDD15 female w/ hex nuts and HDD15 male w/ thumbscrews
- 66165/148532: Thumbscrews on each end

Part No.	Description	1	10	100
134042	6' screws/hex nuts	\$4.75	\$4.18	\$3.70
66165	6' thumbscrews	7.49	6.78	6.10
148532	10' thumbscrews	8.45	7.66	6.76

## DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray

Part No.	Description	Length	1	10	100
181286	DA15 M-M	6'	\$6.59	\$5.94	\$5.34
181359	DA15 M-F	6'	5.49	4.95	4.45

## DB25-to-Centronics Parallel Printer Cables

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles

Part No.	Description	Wt. (lbs.)	1	10	100
28716	6' straight	0.4	\$4.74	\$4.28	\$3.84
123781	10' straight	0.6	5.95	5.09	3.98
28708	15' straight	0.8	5.95	5.09	3.79

## 37-Pin Straight Through Cable Adapter

- Molded connectors
- Color: gray
- Weight: 0.9 lbs.

Part No.	Description	1	10	100
181295	6' DC37 M-F	\$5.95	\$5.49	\$4.95

## DB9 Extension Cables

- All lines connected straight through
- 132346/196366: DB9 female to DB9 female cable with thumbscrews
- 199639/25701/148516: DB9 male to DB9 female cable with thumbscrews
- 181666: DB9 male to DB9 male cable

Part No.	Description	1	10	100
132346	6' F-F	\$4.95	\$4.49	\$3.95
199639	6' M-F (blk)	5.25	4.59	4.06
25701	6' M-F	7.05	6.39	5.62
196366	10' F-F	7.45	6.67	5.97
148516	10' M-F	7.99	7.25	6.39
181666	10' M-M	7.45	6.67	5.97

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For additional Computer Cables visit our website today.

## RGB Video Cable

- 75Ω coaxial cable
- Length: 6'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male • Color: black



Part No.	Description	1	10	25
73648	RGB video cable ⊕ ...	\$19.95	\$16.99	\$12.75

## Switch Box Adapter Cables

### 6-pin mini DIN

- 177261: Male to male non-coiled cable for P/N 79177 switch box, pg 209
- 174772: Male to male
- 174908: Male to male non-coiled
- 112628: Male to male non-coiled cable for P/N 79177 switch box, pg 209



Quantity SAVE

Part No.	Length	Color	1	10	50
177261	2' ⊕	Gray	\$2.95	\$2.55	\$1.89
174772	6'	Black	4.95	4.25	3.19
174908	6' ⊕	Gray	5.75	5.15	4.65
112628	10' ⚡	Beige	7.95	7.25	6.49

## DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



31722

Part No.	Description	1	10	100
109584	1' serial, beige ⚡	\$4.35	\$3.95	\$3.49
189333	3' serial, beige ⊕	3.95	3.39	2.55
31722	6' serial, beige ⚡	5.09	4.66	4.13
191361	6' serial, gray	4.79	4.35	3.43
155522	10' serial, beige ⚡	4.09	3.66	3.25

## DB25 Extension Cables

- Use to lengthen your standard serial cable or for switch box applications
- All lines connected straight through
- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001/175291: black\*

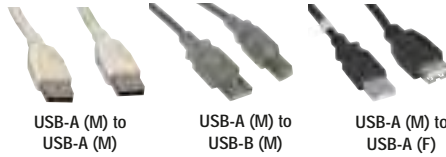


67257

Part No.	Description	1	10	50	100
174001	3' M-M ⊕*	\$5.09	\$4.61	\$4.12	\$3.70
401138	3' M-M ⚡	5.34	5.10	4.79	4.55
65788	6' M-M ⚡	7.79	7.07	6.35	5.87
39538	10' M-M ⊕	6.95	6.29	5.05	3.69
179979	15' M-M ⊕	8.34	7.52	6.76	5.95
60700	25' M-M ⊕	11.05	10.05	9.04	8.03
180435	50' M-M ⊕	14.95	13.49	11.95	9.95
164291	3' M-F ⊕	4.29	3.89	3.49	2.95
175291	3' M-F ⚡*	3.15	2.86	2.40	1.69
163133	5' M-F ⊕	6.35	5.70	5.15	4.62
67257	6' M-F ⚡	7.74	6.95	6.30	5.63
39511	10' M-F ⊕	8.15	7.49	6.74	6.07
177279	15' M-F ⊕	9.49	8.55	7.69	6.25
101996	25' M-F ⚡	12.25	11.07	9.94	8.16
181201	50' M-F ⊕	17.95	15.11	11.33	8.50
224267	6' F-F ⚡	7.49	5.97	4.46	3.16

Additional products available at  
[www.Jameco.com](http://www.Jameco.com)

## USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products

### USB-A Male to USB-A Male

Part No.	Description	1	10	25
326474	3' cable beige ⚡	\$1.55	\$1.39	\$1.29
229682	6' cable beige ⚡	1.65	1.49	1.39
222033	6' cable black ⊕	1.65	1.49	1.39
229690	10' cable beige ⊕	2.39	2.34	2.22
222050	15' cable black ⊕	2.85	2.59	2.49

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711	3' cable beige ⚡	\$1.55	\$1.39	\$1.29
222608	3' cable black ⚡	1.55	1.39	1.29
229585	3' cable clear	1.55	1.39	1.29
229730	6' cable beige ⚡	1.65	1.49	1.39
222010	6' cable black ⚡	1.65	1.49	1.39
229594	6' cable clear	1.65	1.49	1.39
229738	10' cable beige ⚡	1.89	1.75	1.65
222018	10' cable black ⚡	1.89	1.75	1.65
229607	10' cable clear	1.89	1.75	1.65
229762	15' cable beige ⚡	2.85	2.59	2.49
222026	15' cable black ⚡	2.85	2.59	2.49
229614	15' cable clear ⊕	2.95	2.51	1.88

### USB-A Male to USB-A Female

Part No.	Description	1	10	25
326482	3' cable beige ⚡	\$1.55	\$1.39	\$1.29
229771	6' cable beige ⚡	1.65	1.49	1.39
222068	6' cable black ⊕	1.65	1.49	1.39
229622	6' cable clear ⊕	1.65	1.49	1.39
229789	10' cable beige ⚡	1.89	1.75	1.65
222076	10' cable black ⊕	1.89	1.75	1.65
229797	15' cable beige ⚡	2.85	2.59	2.49
222084	15' cable black ⊕	2.85	2.59	2.49
229650	15' cable clear ⚡	3.55	3.23	3.11

## Digital Camera USB 2.0 Cables

- Color: black
- Length: 6 ft.
- For use w/ digital cameras, memory card readers, etc.



Part No.	Product No.	1	10
673715	USB-A to mini 4-pin ⚡	\$2.99	\$2.65
673694	USB-A to mini 5-pin	2.75	2.35

## USB 1.1 Cable

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
169359	6' cable	\$1.79	\$1.59	\$1.35

## 9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5



Part No.	Description	1	10	100
162915	DB9 male to DB9 female	\$2.95	\$2.51	\$1.88

## USB-A Cable with Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long



Part No.	Description	1	10	25
144813	Female panel mount ⊕	\$3.99	\$3.79	\$3.59

## USB-to-DB9 Serial Adapter

- USB-A to DB9 male • Length: 13"
- Supports automatic handshake mode
- Over 230kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters



Part No.	Description	1	10
387954	USB-A to DB9 ⚡	\$17.95	\$16.15

## CAT 5e/6 Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP



### CAT 5e

Part No.	Description	1	10	100
681109	3' cable RJ45	\$2.95	\$2.65	\$2.39
681117	7' cable RJ45	4.75	4.45	3.75
302041	6' cable RJ45	3.75	3.39	3.05
685812	7' cable RJ45 (yellow)	4.75	4.45	3.75
169261	10' cable RJ45 ⚡	9.25	8.31	7.44

### CAT 6

Part No.	Description	1	10	100
679762	3' cable RJ45	\$7.95	\$7.15	\$6.29
681096	7' cable RJ45	9.95	8.95	7.69

## USB Gender Adapter

- USB-A female to USB-A female
- Dimensions: 1.5"L x 0.7"W



Part No.	Description	1	10	25
316806	USB-A female ⊕	\$2.69	\$2.49	\$2.25

## IEEE 1394 Firewire Cables



- IEEE-1394 compliant
- UL approved
- Molded connectors

### 4-pin Male to 4-pin Male

Part No.	Description	1	10	25
175821	6' cable black ⊕	\$5.59	\$5.05	\$4.55

### 4-pin Male to 6-pin Male

Part No.	Description	1	10	25
175839	6' cable black ⊕	\$5.59	\$5.05	\$4.55

### 6-pin Male to 6-pin Male

Part No.	Description	1	10	25
222615	3' cable black ⊕	\$4.99	\$4.45	\$3.95
175848	6' cable black ⚡	5.59	5.05	4.55
222201	10' cable black ⊕	6.99	6.25	5.65
222210	15' cable black ⊕	8.59	7.75	6.95

## Category 6 Network Cables

- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6



Part No.	Length	Color	1	10	50
219707	3 ft.	Gray	\$2.79	\$2.69	\$2.02
219715	7 ft.	Gray	3.99	3.87	3.68
219723	14 ft.	Gray	6.59	6.37	6.05
219731	25 ft.	Gray	10.59	9.97	9.44
219740	50 ft.	Gray	13.29	12.44	11.61
219854	3 ft.	Blue	2.79	2.69	2.56
219862	7 ft.	Blue	3.99	3.87	3.68
219871	14 ft.	Blue	6.59	6.37	6.05
219889	25 ft.	Blue	11.29	10.71	8.87
219897	50 ft.	Blue	12.89	11.76	10.03
220003	3 ft.	White	2.79	2.39	1.78
220011	7 ft.	White	3.99	3.87	3.68
220046	50 ft.	White	17.15	16.30	15.48
219900	3 ft.	Red	2.79	2.69	2.56
219918	7 ft.	Red	3.99	3.87	3.68
219934	25 ft.	Red	8.59	7.94	7.41
219942	50 ft.	Red	14.29	12.45	9.11
219803	3 ft.	Green	2.79	2.69	2.56
219811	7 ft.	Green	3.99	3.87	3.68
219820	14 ft.	Green	6.59	6.37	6.05
219846	50 ft.	Green	12.89	11.76	10.03
219766	7 ft.	Black	3.99	3.87	3.68
219774	14 ft.	Black	6.59	6.37	6.05
219782	25 ft.	Black	9.19	8.23	6.92
219791	50 ft.	Black	14.29	14.15	10.31
219969	7 ft.	Yellow	3.99	3.87	3.68
219993	50 ft.	Yellow	12.89	11.76	10.03

## Category 5e Network Cables

- UTP • 350 MHz
- 8P8C • 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance



Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	\$1.79	\$1.49	\$1.39
168305	7 ft.	Gray	3.59	3.11	2.87
168313	15 ft.	Gray	7.49	6.23	5.67
168321	25 ft.	Gray	9.59	8.15	7.67
201777	3 ft.	Red	1.79	1.49	1.39
201785	7 ft.	Red	3.59	3.11	2.87
201793	15 ft.	Red	6.95	5.95	4.45
201806	25 ft.	Red	9.59	8.15	7.67
201697	3 ft.	Black	1.79	1.49	1.39
201700	7 ft.	Black	3.59	3.11	2.87
201718	15 ft.	Black	5.29	4.39	3.99
201726	25 ft.	Black	7.99	6.79	6.39
201734	3 ft.	Blue	1.79	1.49	1.39
201742	7 ft.	Blue	3.49	3.00	2.77
201751	15 ft.	Blue	6.35	5.27	4.79
201769	25 ft.	Blue	9.59	8.15	7.67
201814	3 ft.	Yellow	1.79	1.49	1.39
201822	7 ft.	Yellow	3.49	3.03	2.80
201831	15 ft.	Yellow	6.35	5.27	4.07
201849	25 ft.	Yellow	9.59	8.15	7.67

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## Modular Plugs



P = No. of positions  
C = No. of contacts  
W/E = Western Electric type number

\* Prepackaged: Please order in increments of 10

Part No.	Description	W/E	1	10	100	1000
103491	4P4C (handset)	616	*	\$ .132	\$ .117	\$ .088
79290	6P4C (RJ11)	623	*	.142	.117	.088
79273	6P6C (RJ11)	623	.25	.22	.195	.18
79281	8P8C (RJ45) (for stranded wire)	641	.47	.38	.28	.25
119343	8P8C (RJ45) unshielded (for solid wire)	—	.45	.424	.338	.264
116611	8P8C (RJ45) shielded	—	1.09	.99	.89	.79
204231	8P8C (RJ45) shielded (for STP stranded wire)	—	1.34	1.26	1.16	.97
116602	8P8C (RJ45) shielded (for solid wire)	—	.99	.79	.65	.49
180646	10P10C (for stranded wire)	—	1.39	1.15	.82	.62

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## Modular Jacks



- Voltage rating: 150VAC max.
- Contact current rating: 1.5A max. @ 25°C
- Durability: 750 mating cycles
- PC mount

\*W/E = Western Electric type number

Part No.	Description	*W/E	1	10	100
115128	4P4C (handset) 0.395" W	—	\$ .41	\$ .361	\$ .316
151766	6P4C (RJ11) side flange	AMP	.55	.507	.46
115837	6P6C (RJ11) side flange	—	.81	.74	.65
204178	6P6C (RJ11) dual	—	1.49	1.35	1.19
124039	6P6C (RJ11) 6 leads	—	1.25	1.15	.99
115844	8P8C (RJ45)	641	.54	.494	.45
204215	8P8C (RJ45) 0.81" L	—	1.19	1.09	.95
203449	8P8C (RJ45) shielded Pin spacing "A" = 0.055"	—	1.39	1.18	.99

## Other Manufacturers — Great Deals

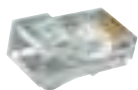
1537416	8P8C (RJ45) Low Profile	—	\$ .95	\$ .89	\$ .66
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JAMAR

## "EZ" RJ45 Connector

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

- For solid or stranded wire • 8P8C plug
- Use standard modular crimping tool



Part No.	Product No.	1	10	100	250
158115	RJ45 (8P8C)	\$1.75	\$1.58	\$1.42	\$1.25

AMP

## Modular Jack

- 4-position
- Side entry, flangeless, **NEW**
- Housing: PBT polyester, black
- Terminal: 0.35" thick phosphor bronze plated with 1.27µm min. thick hard gold in localized gold plate area and 3.81µm min. thick tin-lead in solder area over 1.27µm min. thick nickel underplate



Part No.	Product No.	1	10	100
852836	555980-1	\$ .66	\$ .62	\$ .59

AMP

## 8P8C In-Line Coupler, Modular Jacks &amp; Plugs

## In-Line Coupler

- Housing: black polyphenylene oxide
- Panel mount thickness: 0.062" nominal
- Terminals: 0.018" diameter phosphor bronze with 50µm gold over nickel



Part No.	Product No.	1	10	100
524445	555052-1	\$3.45	\$2.99	\$2.77

## Single Port Modular Jacks

- Meets or exceeds FCC part 68 rules and regulations
- Current rating: 1.5A max. @ 25°C (derated)
- Voltage rating: 150VAC max.
- Housing: polyester 94V-0 rated
- Dielectric withstanding voltage: 1000VAC<sub>RMS</sub>
- Contact: 0.014" thick phosphor bronze with 50µm gold in contact area and 150µm tin-lead on solder tails over nickel



## Shielded

Part No.	Product No.	Position	1	25	50
524453	555153-1	Side entry, low profile	\$1.33	\$1.26	\$1.20

## Unshielded

Part No.	Product No.	Position	1	25	50
524488	555416-1	Top entry	\$ .61	\$ .54	\$ .52
524461	555164-1	Side entry 12.6mm H	.67	.65	.61

## Unshielded Modular Plugs

- One piece construction with pre-loaded contacts
- Housing: polycarbonate UL94V-0 rated
- Current rating: 15A @ 150VAC
- Terminals: 0.014" thick phosphor bronze under-plated with 100µm nickel, plated with 50µm gold in contact region and gold flash on terminal
- Dielectric withstanding voltage: 1000VAC
- Insulation resistance: 5000MΩ
- Meets FCC rules and regulations part 68 and TIA/EIA 568A



Part No.	Product No.	Description	1	25	50
524496	5-557315-3	Round solid	\$ .53	\$ .498	\$ .448
524402	5-554169-2	Round stranded	.46	.423	.391
524411	5-554720-3	Flat oval solid	.53	.498	.448
524429	5-554739-3	Flat oval strd.	.46	.423	.399
524525	5-558530-3	Stranded	.71	.64	.58
524533	5-558530-4	Solid	.69	.66	.63

† Load Bar

# Modular Plugs, Jacks, Cables & Accessories

Color Code Legend  
New Sale Lower\$ QtySave

## Keystone-Type Wall Plate

• Size: 2.8"W x 4.5"H

Part No.	No. of ports	Color	1	10	100
212978	1	White	\$1.19	\$1.01	\$ .76



## Keystone-Type RJ45 & RJ11 Jacks

### Modular Punchdown Type

- Removable jacks used in wall plates (shown above)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D
- RJ45: 8P8C RJ11: 6P6C



Part No.	Color	1	10	100
195630	Black	\$4.05	\$3.83	\$3.44
212951	Blue	3.75	3.19	2.39
212944	White	3.75	3.55	3.19

### RJ11

Part No.	Color	1	10	100
213517	White	\$3.75	\$3.55	\$3.19

## Network Connectors

CAT 5e Coupler • RJ45 female

Part No.	Product No.	1	10	100
615048	45-5439	\$5.39	\$5.05	\$4.79

180° IDC Toolless Design • CAT 5e

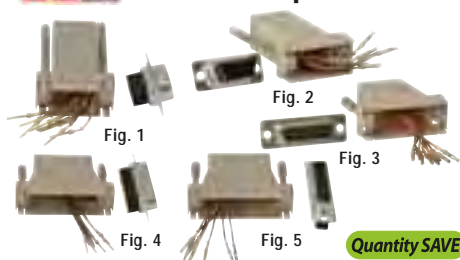
Part No.	Product No.	1	10	100
615144	45-5837	\$2.79	\$2.67	\$2.54

## RJ45 Plug Color Caps (Boots)

- Round strain relief
- Sold in increments of 10

Part No.	Color	10	100	500	1000
204410	Black	\$.14	\$.13	\$.12	\$.09
204362	Blue	.14	.12	.098	.073

## Telco Adapters



Part No.	Fig.	Prod. No.	Description	1	10	100
614969	1	45-5109	6C RJ12 to DB9 M	\$2.99	\$2.27	\$2.04
614977	1	45-5110	8C RJ45 to DB9 M	2.45	2.31	2.21
614985	2	45-5111	4C RJ11 to DB9 F	2.49	2.27	1.71
614993	2	45-5112	6C RJ12 to DB9 F	2.45	2.31	1.96
615005	2	45-5113	8C RJ45 to DB9 F	2.45	2.31	1.96
615013	3	45-5117	8C RJ45 to DB15 F	3.39	2.73	2.34
615021	4	45-5123	8C RJ45 to DB25 M	2.89	2.73	2.34
615030	5	45-5127	8C RJ45 to DB25 F	2.69	2.47	2.22

Blue Part No. = Limited Quantity Available

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Modular Couplers and Adapters

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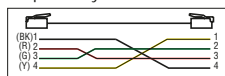


Fig. 1  
W: 1.5"  
H: 0.9"  
D: 0.7"



Fig. 2  
W: 1.7"  
H: 1.0"  
D: 0.9"

Style 1 Reverse wiring for telephone systems



Part No.	Description	Fig.	1	10	100
71757	6P6C modular coupler, Style 1, RJ11	1	\$ .95	\$ .86	\$ .79
118501	8P8C modular coupler, Style 1, RJ45	1	1.85	1.75	1.55
135079	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023	8P8C modular coupler, Style 2 (for CAT 5) RJ45	2	7.99	7.19	6.49

## Modular Jack Boxes

Fig. 1  
W: 2.0"  
H: 2.2"  
D: 0.9"

Fig. 2  
W: 1.5"  
H: 2.4"  
D: 1.1"

Fig. 3  
W: 2.4"  
H: 2.4"  
D: 1.1"

Part No.	Description	Fig.	1	10	100
103464	6P4C adhesive jack RJ11 (beige)	1	\$1.39	\$1.19	\$1.09
71984	6P6C adhesive jack RJ11 (beige)	1	1.39	1.19	.99
71651	8P8C adhesive jack RJ45 (beige)	1	1.95	1.65	1.45
213032	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	2	3.29	2.99	2.69
213049	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	3	4.55	3.87	2.90

JAMECO ValuePro

## RS-232-to-RJ11/RJ45 Modular Jack Adapters

A JAMECO EXCLUSIVE



Change your RS-232 port to an RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Description	1	10	100
66181	DB9 M to RJ11 (6P6C)	\$2.59	\$2.35	\$2.09
66191	DB9 M to RJ45 (8P8C)	2.89	2.65	2.35
114738	DB9 F to RJ11 (6P4C)	2.34	2.15	1.91
66202	DB9 F to RJ11 (6P6C)	2.79	2.55	2.29
66212	DB9 F to RJ45 (8P8C)	2.99	2.69	2.45
66229	DB25 M to RJ11 (6P6C)	2.95	2.35	1.99
66237	DB25 M to RJ45 (8P8C)	2.99	2.69	2.45
66254	DB25 F to RJ45 (8P8C)	2.89	2.59	2.29

## Banjo In-Line Modular Adapters

4/6/8 Pin 3-In-1

Adapter can be applied to any brand of butt sets, LAN cable testers, or tone generators.

Part No.	Product No.	Description	Price
673723	MT-8091	In-line modular adapters	\$24.39

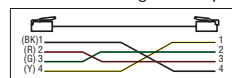
## Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

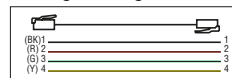


Low Cost Data/Phone Cables

Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing



Quantity SAVE

Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
189940	1	RJ11-6P2C	7ft.	\$ .99	\$ .85	\$ .65
196227	1	RJ11-6P4C	7ft.	1.75	1.49	1.29
115554	2	RJ11-6P4C	7ft.	1.75	1.49	1.29
115545	1	RJ11-6P4C	25ft.	2.99	2.72	2.41
201232	2	RJ11-6P4C	35ft.	2.49	2.25	1.69
115588	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
115677	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

## Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147	HT200	\$54.95	\$49.49	\$44.55

## 3M Tape Wire Marker

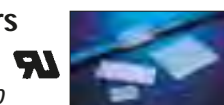
- For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W



Part No.	Description	1	10
159231	Numerical tape dispenser	\$37.89	\$35.95

## Cable Markers

- UL approved natural nylon
- Sold in increments of 10



Part No.	Size	10	100	1000
182705	1.5"L x .75"W	\$ .108	\$ .096	\$ .08

## Nylon Cable ID Ties and Tabs

- Clear ID tab (0.98" x 0.31")
- Sold in increments of 10



Part No.	Size	10	100	1000
71062	4.0"L x 0.1"W	\$ .091	\$ .085	\$ .076

More Modular products available at  
[www.Jameco.com](http://www.Jameco.com)

## Cable Tie Mounts and Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2
- Sold in increments of 10



Part No.	Cross Ref. No.	Description	10	100	1000
182942	0505HC-101S	4-way cable tie mount, self adhesive, .75"D .....	\$0.76	\$0.72	\$0.69
171214	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square .....	.156	.113	.11
71407	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square .....	.185	.165	.134
71395	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square .....	.23	.19	.14
71386	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square .....	.30	.228	.156
70595	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W .....	.17	.102	.057
182301	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D .....	.17	.15	.14
173761	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W .....	.15	.091	.068
173737	UC1	Cable clamp for 1/4" cable .....	.15	.097	.068

## Nylon Cable Ties

### Standard

70561

- Cable ties made from UL approved Nylon 6.6
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676:white)
- Sold in increments of 100



Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70561	18	3.1 x 0.10 .....	\$0.25	\$0.15
126544	18	4.0 x 0.10 .....	.025	.017
182676	18	4.75 x 0.13 .....	.029	.023
182651	18	5.5 x 0.13 .....	.035	.025
139150	18	8.0 x 0.10 .....	.048	.04
182669	18	8.0 x 0.13 .....	.075	.05
182685	18	8.0 x 0.18 .....	.036	.033
70907	40	5.8 x 0.10 .....	.035	.029
190756	40	10.0 x 0.14 .....	.12	.086
190772	40	11.0 x 0.19 .....	.115	.083
190764	40	13.0 x 0.14 .....	.115	.083

\* White Blue Part No. = Limited Quantity Available

### Weather Resistant

104142

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- Sold in increments of 100



Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125	18	3.0 x 0.90 .....	\$0.045	\$0.034
104142	18	4.0 x 0.10 .....	.044	.029
104134	40	5.8 x 0.10 .....	.058	.038
190782	40	8.0 x 0.13 .....	.108	.083
190800	40	10.0 x 0.14 .....	.115	.093
190802	40	13.0 x 0.14 .....	.134	.104

### Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701: 1000 pcs. (4"L); 10 colors

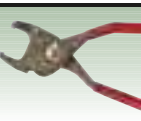
150412: 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors

Part No.	Wt. (lbs.)	1	10	50
145701	0.7	\$9.99	\$8.99	\$7.99
150412	1.7	16.99	15.99	14.99



145701 (closeup)

Bushing Assembly Tool (P/N 73470) use with P/N 182351 (right) available at [www.Jameco.com](http://www.Jameco.com).



♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## RIP-TIE EconoCinch/EG CableTies

The loop lock acts like a pulley, giving you leverage to pull the strap as tight as needed. The non-metallic buckle is safe to use around electrical and magnetic equipment. The EconoCinch EG has a solid brass grommet w/ an ID of 1/4".



Econo Cinch Econo Cinch EG

Part No.	Description	1	10
744691	EconoCinch, 3/4"W x 18"L	\$10.69	\$10.45
746081	EconoCinch, 3/4"W x 36"L	13.65	13.35
748588	EconoCinch EG, 3/4"W x 7"L	8.69	8.49
749951	EconoCinch EG, 3/4"W x 10"L	9.65	9.45

## RIP-TIE Rip-Tie Lite & Wrap Strap

- Patented one end permanently attaches to the cable and the other end has a pull tab
- Durable – made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength
- Reusable and permanent • 10 per pack



Part No.	Description	1	10
700699	1/2"W x 8"L, rainbow	\$8.75	\$8.55
700701	1/2"W x 8"L, black	8.75	8.55
744624	1/2"W x 10"L, rainbow	12.25	11.99
744632	1/2"W x 10"L, black	12.25	11.99

## Split Loom Cable Wrap

Bundle and protect cables and cords.

- High temperature rating
- 1/2" diameter with slit
- Color: black
- 25' spool



Part No.	Description	1	10
1585531	25' split loom .....	\$9.95	\$8.95

## 3M Heat Shrink Tubing Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation.



285481

- 285481: Black 102 pieces
- Assorted pre-shrink sizes: 3/16" (30 pcs.); 1/4" (28 pcs.); 3/8" (20 pcs.); 1/2" (14 pcs.); 3/4" (6 pcs.); 1" (4 pcs.) • Pre-cut to 6" lengths

- 645976: Assorted colors 133 pieces
- 7 colors: black, red, white, yellow, blue, green and clear
- Assorted pre-shrink sizes: 3/32" (35 pcs.); 1/8" (28 pcs.); 3/16" (21 pcs.); 1/4" (21 pcs.); 3/8" (14 pcs.); 1/2" (14 pcs.) • Pre-cut to 6" lengths

1578461: Heat shrink tubing refill pack

- Color: black • Length: 4 ft.
- Inner diameter: 0.125"

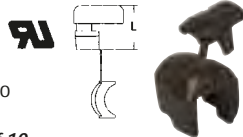
Part No.	Description	1	5	10
285481	Black 102-pc. kit	\$59.75	\$56.79	\$53.95
645976	Colors 133-pc. kit	\$9.99	56.99	54.15
Part No.	Product No.	1	10	100
1578461	FP301-1/8-4FT-BK .....	\$1.12	\$0.86	\$0.73



645976

## Round-Type Strain Relief Bushing

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life
- Sold in increments of 10



Part No.	Cable Type	Lgth (in.)	10	100	1000
182351	SVII/SVT	.43 .....	\$0.052	\$0.041	\$0.039

## Polyolefin Heat Shrink Tubing

### FIT221/FIT221B Series

Insulation from environment and resistance from water fungus and UV light. Use for general purpose insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm) • Volume resistivity: 10<sup>14</sup>Ω-cm



#### Black (4 foot pieces)

Part No.	Product No.	Min./Max. ID (ins.)	1	5	25
419101	FIT221B-3/64R	.046/.023	\$.67	\$.60	\$.57
419127	FIT221B-1/16R	.063/.031	.75	.68	.66
419143	FIT221B-3/32R	.093/.046	.72	.64	.61
419160	FIT221B-1/8R	.125/.062	.86	.77	.76
419186	FIT221B-3/16R	.187/.093	.95	.84	.83
419207	FIT221B-1/4R	.250/.125	1.43	1.28	1.26
419223	FIT221B-3/8R	.375/.187	1.31	1.17	1.11
419240	FIT221B-1/2R	.500/.250	1.48	1.32	1.26

#### Black (6 inch pieces)

Part No.	Product No.	Min./Max. ID (ins.)	Bags of	1	5
419389	FIT221B-3/64R	.046/.023	40 ..	\$14.55	\$12.69
419400	FIT221B-1/16R	.063/.031	36 ....	13.45	12.62
419426	FIT221B-3/32R	.093/.046	32 ....	14.05	12.62
419442	FIT221B-1/8R	.125/.062	28 ....	12.19	11.84
419469	FIT221B-3/16R	.187/.093	24 ....	14.05	12.62
419485	FIT221B-1/4R	.250/.125	20 ....	12.95	12.69
419506	FIT221B-3/8R	.375/.187	16 ....	13.89	13.14
419522	FIT221B-1/2R	.500/.250	14 ....	12.05	11.06
419549	FIT221B-3/4R	.750/.375	12 ....	12.69	11.98
419565	FIT221B-1R	1.00/.500	8 ....	12.95	12.69

#### Clear (4 foot pieces)

419119	FIT221-3/64R	.046/.023	\$.72	\$.65	\$.63
419135	FIT221-1/16R	.063/.031	.88	.74	.70
419151	FIT221-3/32R	.093/.046	.80	.74	.68
419178	FIT221-1/8R	.125/.062	.90	.81	.78
419194	FIT221-3/16R	.187/.093	1.14	1.02	.95
419215	FIT221-1/4R	.250/.125	1.41	1.27	1.17
419231	FIT221-3/8R	.375/.187	1.55	1.37	1.32
419258	FIT221-1/2R	.500/.250	1.75	1.60	1.50
419274	FIT221-3/4R	.750/.375	2.45	2.29	2.14
419291	FIT221-1R	1.00/.500	3.79	3.39	3.21

#### Clear (6 inch pieces)

419397	FIT221-3/64R	.046/.023	40 ..	\$13.45	\$12.62
419418	FIT221-1/16R	.063/.031	36 ....	13.39	12.62
419434	FIT221-3/32R	.093/.046	32 ....	12.95	12.62
419451	FIT221-1/8R	.125/.062	28 ....	13.39	13.00
419477	FIT221-3/16R	.187/.093	24 ....	12.95	12.54
419493	FIT221-1/4R	.250/.125	20 ....	13.39	12.62
419514	FIT221-3/8R	.375/.187	16 ....	12.95	12.54
419531	FIT221-1/2R	.500/.250	14 ....	12.05	11.06
419557	FIT221-3/4R	.750/.375	12 ....	13.39	12.62
419573	FIT221-1R	1.00/.500	8 ....	13.39	12.62

Lowest Price Guarantee

## FLEXO® Clean-Cut Braided Sleeve

- Dense braid structure provides fuller coverage
- Fray resistant when cut with scissors
- Cut and abrasion resistant
- Maintains properties across wide temperature range
- Color: black
- UV resistant
- Length: 25 feet

Part No.	Product No.	Min/Max Flex (ins.)	Inside Dia.(ins.)	Outside Dia.(ins.)	1	10
162157	CCP0.25BK25 R	5/32 – 7/16	0.250	0.440	\$15.99	\$14.99
162165	CCP0.50BK25 R	1/4 – 3/4	0.500	0.750	17.99	16.99
690013	CCP0.75BK25 R	5/8 – 1	0.750	0.798	18.99	17.99
690021	CCP1.00BK25 R	3/4 – 1 3/16	1.000	1.048	19.99	18.99
690030	CCP1.25BK25 R	1 – 1 1/2	1.250	1.298	20.99	19.99
690048	CCP1.50BK25 R	1 1/4 – 2	1.500	1.548	22.99	21.99



## FLEXO® PET Braided Sleeve

- Braided from 10 mil polyethylene terephthalate monofilament yarns
- UL recognized component
- High tensile strength
- Maintains properties across wide temperature range
- Conforms to FMVSS 302
- Color: black
- UV resistant
- Length: 25 feet

Part No.	Product No.	Min/Max Flex (ins.)	Inside Dia.(ins.)	Outside Dia.(ins.)	1	10
693679	PTN0.25BK25 R	1/8 – 7/16	0.250	0.300	\$6.45	\$6.10
693687	PTN0.38BK25 R	3/16 – 5/8	0.375	0.425	9.45	8.96
695383	PTN0.50BK25 R	1/4 – 3/4	0.500	0.550	11.85	10.59
695391	PTN0.75BK25 R	1/2 – 1 1/4	0.750	0.800	15.85	15.05
695412	PTN1.25BK25 R	3/4 – 1 3/4	1.250	1.300	20.35	19.24



## Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black

### Polyolefin Tubing

- Shrink temp: 90°C
- Only sold in 10' & 100' lengths

Part No.	Dia. Before (mm)	Length (ft.)	1	25
644834	0.12" (3)	10 .....	\$1.65	\$1.56
644851	0.12" (3)	100 .....	10.59	10.10
644869	0.16" (4)	10 .....	1.73	1.65
644877	0.16" (4)	100 .....	14.75	13.98
644906	0.20" (5)	10 .....	1.55	1.47
644914	0.20" (5)	100 .....	17.99	17.10
644931	0.24" (6)	10 .....	1.69	1.55
644949	0.24" (6)	100 .....	16.49	15.67
644957	0.31" (8)	10 .....	2.29	2.17
644965	0.31" (8)	100 .....	21.59	20.99
644973	0.43" (11)	10 .....	3.35	3.23
644981	0.43" (11)	100 .....	29.99	28.50
644990	0.59" (15)	10 .....	3.69	3.16
645001	0.59" (15)	100 .....	35.99	34.19

### Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Flame retardant
- Shrink temp.: 90°C
- Temp. range: -45°C to +125°C
- \* Precut 39" length (1 meter)

Part No.	Dia. Before (mm)	1*	10*	100*
71327	.059" (1.5) ⊕	\$.66	\$.56	\$.492
71871	.079" (2.0) ⊕	.55	.45	.39
71280	.098" (2.5) ⊕	.69	.59	.44
72063	.197" (5.0) ⊕	1.07	.92	.69

## Heat Gun/Stripper

### Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed • Size: 9.3"L x 7.0"W



Part No.	Description	1	10	25
76865	Heat gun ⊕	\$39.95	\$35.95	\$31.95

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


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# Audio/Video, 3.5mm, RCA Cables and Adapters

JAMECO ValuePro

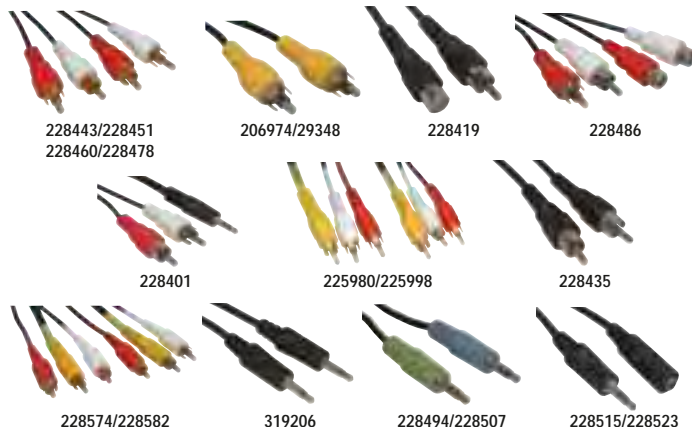
## Audio/Video Cables and Adapters

### RCA Cables

Part No.	Description	1	10	25
228443	3' stereo RCA (2) male to (2) male plugs, gold plated	\$1.75	\$1.64	\$1.52
183312	4' RCA male to male plug (black) 	1.05	.91	.81
206974	4' RCA male to male plug (yellow) 	.99	.89	.79
106375	6' RCA male to male plug 	1.95	1.60	1.20
228419	6' mono RCA male plug to female jack	1.98	1.74	1.50
228486	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451	6' RCA stereo (2) male to (2) male plugs, gold plated	2.15	2.03	1.91
228401	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
228427	10' RCA female jack to male plug	2.39	1.97	1.81
29348	10' RCA male to male plug (yellow) 	1.75	1.58	1.38
228460	12' RCA stereo (2) male to (2) male plugs, gold plated	2.51	2.27	2.10
225980	12' RCA (3) male to (3) male plugs, gold plated	4.95	4.27	3.17
225998	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79	5.09
228435	25' mono RCA male to male plug, nickel plated	2.63	2.51	2.39
228478	25' RCA stereo (2) male to (2) male plugs, gold plated	2.87	2.75	2.63

### Video/Audio Patch Cables

Part No.	Description	1	10	25
228574	25' stereo video patch cable, gold plated	\$6.99	\$6.29	\$5.65
228582	50' stereo video patch cable, gold plated	14.35	12.94	11.62



### 3.5mm Audio Patch Cables

Part No.	Description	1	10	25
319206	27" 3.5mm mono male to male plug	\$1.43	\$1.23	\$1.16
664288	3' 3.5mm stereo male to male plug (black)	1.09	.99	.75
228494	6' 3.5mm stereo male to male plug (black)	1.45	1.26	1.05
228515	6' 3.5mm stereo male plug to female jack	1.95	1.79	1.69
228507	12' 3.5mm stereo male to male plug (black)	1.69	1.49	1.29
228523	12' 3.5mm stereo male plug to female jack	1.98	1.79	1.62

JAMECO ValuePro

## S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players



Part No.	Description	1	10	25
228591	6' S-VHS video cable, gold plated	\$2.15	\$1.95	\$1.79
228603	12' S-VHS video cable, gold plated	2.65	2.35	2.10
228611	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391	S-video male plug to RCA video female jack	5.39	4.85	4.39

### Other Manufacturers — Great Deals

682662	S-video M-M plug 6'	\$1.95	\$1.79	\$1.59
683075	S-video M-RCA female jack adapter	4.95	4.49	3.59

### BNC To RCA Cable

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.

Part No.	Description	1	10	50
683059	RG-59 BNC to RCA cable	\$3.95	\$3.49	\$2.95

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

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## 3.5mm Female Jacks and Male Plugs



- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231160/231167: With spring strain relief

Part No.	Cross Ref. No.	Description	1	10	100
109496	PJ035PM 	Mono F jack, 3.5mm hole size	\$.53	\$.472	\$.425
165730	PJ0354 	Mono F jack, 3.5mm hole size	.79	.67	.56
101152	PJ1035 	Mono male plug, plastic	.58	.45	.42
231160	PJ1035 	Mono male plug, plastic	1.50	1.43	1.31
231176	AP-340 	Stereo male plug, plastic	.66	.516	.432
231167	AP-343 	Stereo male plug, metal	2.15	1.92	1.74

## Component Video and Audio Cables



- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



Part No.	Description	1	2	5
228620	6' component video RGB cable	\$9.99	\$8.99	\$7.96
229403	6' component video RGB and stereo audio cable	14.95	13.46	12.11

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## RG-59 75Ω Coaxial Cables

Part No.	Product No.	Type	Length (ft.)		
85585	205-010BK	RG-59	3	1	10
				\$1.05	\$ .95



**Quantity SAVE**

## RCA Metal Plugs

- High-quality metal housing RCA plugs

229876



Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Product No.	Description	1	10	25	100
229876	JR0101BLK	Black stripes	\$2.27	\$2.03	\$1.86	\$1.67
229868	JR0101R	Red stripes	2.27	2.03	1.86	1.67
230287	JR0101Y	Yellow stripes	2.27	2.03	1.86	1.65

## RCA Plastic Plugs

- High-quality plastic RCA plugs

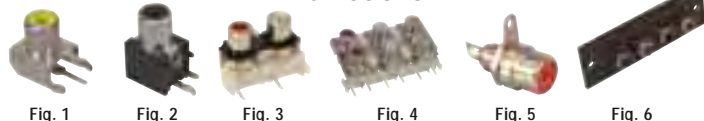
Plastic screw-on cover w/ integral cable protection

229930



Part No.	Product No.	Description	1	10	25	100
229921	JR1625BLK	Black (5 pk)	\$1.15	\$1.05	\$ .91	\$ .82
229930	JR1625R	Red (5 pk)	1.15	1.05	.91	.82
229913	JR1625W	White (5 pk)	1.43	1.31	1.14	1.07

## RCA Jacks



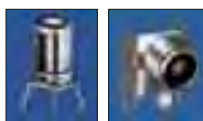
- Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions (WxDxH)	1	10	100	1000
220581	1	PCB mount, white	.44" x .56" x .48"	\$ .45	\$ .31	\$ .28	\$ .22
220556	1	PCB mount, red	.44" x .56" x .48"	.51	.34	.31	.252
112476	1	PCB mount, red	.44" x .58" x .48"	.47	.42	.372	.228
169502	2	PCB mount, black	.40" x .85" x .50"	.47	.42	.384	.312
1537150	3	PCB mount, red/white	1.1" x .40" x .51"	.69	.63	.49	.35
689881	4	PCB mnt., 1x3 grid, rd/wt/ylw	1.7" x .61" x .62"	.99	.89	.79	.65
159485	5	Panel mount, black	.84"W x .38"H	.68	.517	.47	.392
172340	5	Panel mount, red	.84"W x .38"H	.59	.468	.372	.276
319249	6	Panel mnt., 1x4 grid, rd/bk	2.9" x .48" x .98"	1.43	1.19	1.13	1.07

## RCA/Phono Jacks

- Snap-fit mount

Part No.	Product No.	Color	1	5	50
1581513	577	Vertical, red	\$ .74	\$ .71	\$ .69
1581564	901	90°, black	1.06	1.04	1.02



## Microphone (XLR) Connectors and Adapter



Part No.	Cross Ref. No.	Description	1	10
319011	250-710	3-pin male microphone, metal	\$2.35	\$2.17
319003	250-720	3-pin female microphone, metal	2.29	2.20
319046	250-700	3-pin male microphone, metal, panel mount	3.25	2.79
319038	250-705	3-pin female microphone, metal, panel mount	4.15	3.39

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.100" Shorting Blocks	119 +WEB	IDC Connectors	122-124,129-133,141,145 +WEB
.118" Micro-Fit 3.0mm	124 +WEB	Jones Plugs and Sockets	133 +WEB
.156" Headers and Housings	125,129 +WEB	Mate-N-Lok	131-132 +WEB
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2.00mm Shorting Blocks	119 +WEB	Pins, Crimp/Power	114-116,119,122,
2.13mm Pin and Socket	119 +WEB		124-127,130-131 +WEB
2.36mm Power	118-119 +WEB	Power	118-119,122-127,131-132 +WEB
2.54mm AMPLATCH	129 +WEB	RCA Jacks/Plugs	112 +WEB
2.54mm Headers	119-123,128-129 +WEB	Rectangular	118-133 +WEB
2.54mm Housings	122 +WEB	RF	136-138 +WEB
2.54mm IDC (MTA)	122-124 +WEB	Ribbon Cable	127-130,132
2.54mm KK Series	122-123 +WEB	Shorting Blocks	119 +WEB
2.54mm Receptacles	127-128,130 +WEB	Shunts	119 +WEB
3.00mm Micro-Fit	124 +WEB	SMA/SMB	136,138-139 +WEB
3.96mm Headers and Housings	125 +WEB	SMT	124 +WEB
3.96mm KK Series	125 +WEB	Sockets	130-131,133-136
4.20mm Mini-Fit Jr.	125-126 +WEB	Solderless Terminals	141-145 +WEB
8.38mm Pin & Socket Connectors	127 +WEB	Strain Relief Covers	122
AT/ATX	126 +WEB	Telecom Splice	141
Audio/Video	111-113,136-137,139 +WEB	Telephone	107-108 +WEB
BNC	136-137 +WEB	Terminal Blocks	140-141 +WEB
Card Edge	132,253	TNC	138 +WEB
Centronics, IDC/PCB Right Angle	132	Tools	115,118,123-124,
Centronics, 0.085" Density	132		126-127,129,132,137,141 +WEB
Coax	136-139 +WEB	USB	134 +WEB
Computer	126-127,131-134 +WEB	Wire	130-131,141
Contacts	114-116,119,122-127,131,134 +WEB	XLR	112-113 +WEB
CPC Circular Plastic	114 +WEB		

## Audio Adapters and Cables



### RCA Audio Adapters

Part No.	Prod. No.	Description	1	10	25
228283	251-120	RCA F jack to mono 1/4" M plug	\$ .99	\$ .89	\$ .69
228267	251-116	RCA F to F jack coupler, gold plated	.95	.79	.55

### RCA Y-Cables

139038	AC-27-5FT	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79
682793	WCA-2274G	6' Y-cable 1/8" stereo M plug to (2) RCA mono M plugs	2.29	2.09	1.89
228371	255-025	6' Y-cable (2) RCA M plugs to RCA F jack	1.11	.99	.90
228355	255-010	6' Y-cable RCA M plug to (2) RCA F jacks	1.85	1.63	1.51
228380	255-038	6' Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.95	1.76	1.59

### 3.5mm Y-Cables

228398	255-042	6' Y-cable (2) 3.5mm stereo F jacks to 3.5mm stereo M plugs	\$1.95	\$1.65	\$1.35
228380	255-038	6' Y-cable (2) RCA F jacks to 3.5mm stereo M plug	1.95	1.76	1.59

## Switchcraft®

Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

### Audio Plugs and Jacks

**NEW**

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
281869	750R	1	3.5mm mono audio plug, plastic	14.0 x 41.5 x 5.7 ID	\$3.09	\$2.36	\$2.30
297297	850R	2	2.5mm mono phone audio plug, plastic	25.8 x 6.35 Dia.	2.89	2.83	2.60
281789	297R	3	1/4" stereo phone audio plug, metal	73.7 x 7.6 ID	5.29	4.71	4.28
281771	280R	4	1/4" mono phone audio plug, metal	73.7 x 7.6 ID	3.95	3.12	3.09
281762	267R	5	1/4" stereo phone audio plug, plastic	73.7 x 7.6 ID	4.85	4.06	3.73
281754	250R	6	1/4" mono phone audio plug, plastic	73.7 x 7.6 ID	3.25	2.81	2.57
281746	12B	7	1/4" stereo phone audio jack	14.7 x 9.1 Dia.	1.79	1.66	1.59
281738	11R	8	1/4" mono phone audio jack	12.8 x 9.1 Dia.	1.67	1.55	1.43
296892	12A	7	1/4" mono phone audio jack, metal	31.7 x 9.4 Dia.	1.75	1.61	1.53
1766121	35RACP2AVR	9	3.5mm mono jack, RA vert., plastic	11.0H x 7.5W x 14D	.94	.81	.76
1766155	35RACP2BV4R	9	3.5mm mono jack, RA vert., plastic	12.3H x 8.1W x 14D	1.99	1.66	1.49
568392	35RACP4BH3R	10	3.5mm stereo jack, RA hor., plastic	6.0H x 11.0W x 8.0D	1.19	1.09	1.05
1766180	35RACP4BHN2R	10	3.5mm stereo jack, RV hor., plastic	5.0H x 12.0W x 15.0D	1.27	1.01	.91
1766198	35RACP4BV4R	11	3.5mm stereo jack RA vert., plastic	12.3H x 8.1W x 14.0D	1.35	1.17	1.12
1766219	35RACP7JSR	12	3.5mm dual stereo jack, vertical	26.7H x 15.0W x 13.7D	5.59	4.77	4.45
1773996	MDPC2ARAR	13	2.5mm mono phone audio jack, RA submini	7.8W x 8.7Wx 12.8D	2.69	1.89	1.72
1774913	RN111PCR	14	1/4" mono phone audio jack, RA PCB	17.17H x 15.8W x 32.5D	2.15	1.47	1.44
1774930	RN112BPCR	15	1/4" stereo phone audio jack, RA PCB	17.17H x 15.8W x 32.5D	2.19	1.79	1.72

### Power Plugs and Jacks

**Lower \$\$\$**

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
281842	712AR	16	2.5mm DC power jack, panel mount	15.8 x 7.5 Dia.	\$2.39	\$1.79	\$1.67
1768329	712AR	17	2.5mm DC power jack, PCB locking	19.6 x 10.9 Dia.	3.49	2.31	2.19
281851	722AR	16	2.1mm DC power jack, panel mount	15.1 x 7.5 Dia.	2.15	2.00	1.93
297553	PC712AR	18	2.5mm x 5.5mm DC power jack, metal	23.3 x 11.0 Dia.	3.09	2.35	2.10
297529	L712AR	19	2.5mm x 5.5mm DC power jack, metal	23.3 x 11.0 Dia.	3.75	3.19	2.86
281877	760R	20	2.5mm x 5.5mm DC power plug, plastic	9.6 x 36.3 x 5.7 Dia.	2.49	2.13	2.04
1768492	760KR	21	2.5mm DC power plug, plastic locking	43.2 x 5.5 Dia.	4.75	3.95	3.16
297617	S760R	20	2.1mm x 5.5mm DC power plug, plastic	25.4 x 9.5 Dia.	2.49	2.13	2.03
297289	761KR	21	2.5mm DC power plug, plastic locking	45.7 x 5.5 Dia.	4.35	3.22	3.14

### Microphone (XLR) Connectors

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
277026	A3FR	22	3-pin female, metal	82.5 x 5.3 Dia.	\$4.75	\$3.86	\$3.65
281560	A3MR	23	3-pin male, metal	70.3 x 5.3 Dia.	4.09	3.49	3.36
281640	D3FR	24	3-pin female, metal, panel mount	27.0W x 36.3H x 30.6D	5.65	4.98	4.57
281586	A4FR	22	4-pin female, metal	82.0 x 5.5 Dia.	7.99	6.13	5.63
281594	A4MR	23	4-pin male, metal	71.2 x 4.8 Dia.	5.09	4.54	4.16
281607	A5FR	22	5-pin female, metal	82.0 x 4.7 Dia.	12.09	9.92	9.10
281615	A5MR	23	5-pin male, metal	70.2 x 5.3 Dia.	10.39	7.89	7.24
281623	A6FR	22	6-pin female, metal	80.2 x 4.6 Dia.	12.95	11.29	10.35
281711	D6MR	25	6-pin male, metal, panel mount	27.0W x 36.3H x 30.6D	12.35	11.80	10.99
1774702	PQG3FRA112R	26	3-pin female RA PCB w/ lock, plastic	30.0H x 27.0W x 27.1D	6.49	6.18	5.87
1774711	PQG3MRA112R	27	3-pin Male RA PCB w/ lock, plastic	30.0H x 27.0W x 27.1D	7.39	5.57	4.45

### Tini Q-G® Miniature Connectors

**NEW**

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
1775422	TB3MR	28	3-pin male receptacle, panel mount	13.7 x 11.9 Dia.	\$6.99	\$6.27	\$5.54
1775431	TB5MR	28	5-pin male receptacle, panel mount	13.7 x 11.9 Dia.	9.89	7.54	6.91
1775617	TRA3MR	29	3-pin receptacle, PCB Mount	15.1H x 15.4W x 27.0D	9.25	7.06	6.52

### EN3™ Mini Weather-Tight Connectors

**NEW**


Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
1772045	EN3P3MR	30	3-pin male, panel mount	21.0 x 20.6 DIA	\$3.55	\$3.20	\$3.16
568499	EN3CAPR	31	Endcap	—	1.05	.88	.85


### DIN Connectors, Right Angle

**NEW**

Part No.	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
672608	57PC5F	32	5-pin DIN receptacle, 180; plastic	18.0H x 20.0W x 15.5D	\$3.05	\$2.90	\$2.76
1767879	57PC5FSR	33	5-pin DIN receptacle 180; shielded	18.0H x 20.4W x 15.0D	2.99	2.64	2.28

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



Interconnects

AMP

## CPC Circular Plastic Connectors



## Series 1

## Standard density, signal &amp; low-current applications

- Accepts type III+; high-current type II & subminiature coax contacts
- Voltage rating: 600V (UL)

## Free Hanging Receptacles

Part No.	Product No.	Arr.	Sex	1	10
495154	206043-3R	17-14	Reverse	\$2.85	\$2.55
495091	206429-1R	11-4	Reverse	2.45	2.00
495242	206705-2R	13-9	Standard	2.19	1.98

## Square Flange Receptacles with Mounting Holes

Part No.	Product No.	Arr.	Sex	1	10
421382	206036-1R	17-16	Standard	\$2.29	\$2.05
495146	206043-1R	17-14	Reverse	2.29	2.05
495171	206151-1R	23-37	Standard	2.65	2.36
495200	206306-1R	23-37	Reverse	2.65	2.40
495218	206430-1R	11-4	Reverse	2.09	1.64
495162	206061-1R	11-4	Standard	2.22	2.02
495293	211401-1R	13-7	Standard	3.69	3.32

## Plugs

Part No.	Product No.	Arr.	Sex	1	10
495322	206037-1R	17-16	Standard	\$2.55	\$2.34
495031	206044-1R	17-14	Reverse	2.79	2.52
495074	206305-1R	23-37	Reverse	3.89	3.53
495103	206708-1R	13-9	Standard	3.25	2.94
495058	206837-1R	23-24	Standard	3.65	3.48
421374	211399-1R	13-7	Standard	3.39	3.03
495082	206060-1R	11-4	Standard	2.45	2.33

## Series 2 — High density applications

- Voltage rating: 250V (UL) • Current: 7.5A max.
- Housing: thermoplastic black, UL94V-0 rated
- Feed thru contact: copper alloy, plated gold over nickel • 0.40" (1.02mm) pin diameter
- Max. wire insulation diameter: 0.068"
- Accepts size 20DF or 20DM crimp snap-in contacts

## Square Flange Receptacles with Mounting Holes

Part No.	Product No.	Arr.	Sex	1	10
495437	205841-1R	11-8	Standard	\$3.75	\$3.15
495445	206436-1R	11-9	Standard	3.69	3.17

## Plugs

Part No.	Product No.	Arr.	Sex	1	10
495381	205838-1R	11-8	Standard	\$4.55	\$4.07
495365	206039-1R	17-28	Reverse	4.89	4.41
495357	206434-1R	11-8	Reverse	4.55	4.07
495390	206485-1R	11-9	Standard	4.45	3.99

## Series 3 — Low-density power applications

- Accepts type XII power contacts; can carry up to 25A per contacts, accommodates 16-10 AWG
- Housing: thermoplastic black, UL94V-0 rated

## Square Flange G with Mounting Holes

Part No.	Product No.	Arr.	Sex	1	10
495550	206036-2R	17-3	Standard	\$2.75	\$2.51

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Series 3 — Low-density power applications (Cont.)

## Plugs

Part No.	Product No.	Arr.	Sex	1	10
495517	206037-2R	17-3	Standard	\$3.59	\$3.29

## Contacts

- Crimp type except for \*P/N 526424
- Contact body – brass or phosphor bronze
- Finish:
 

A: 30µ" gold over nickel	B: Tin-lead
C: 15µ" gold over nickel	D: 50µ" gold over nickel
E: Silver plated	F: gold flash over nickel

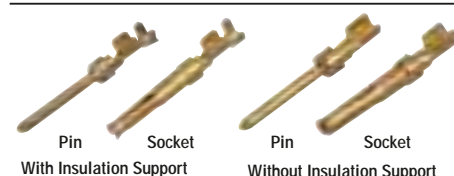
## Type III+ Snap-In Crimp Pins w/ Retention Spring

Part No.	Product No.	AWG	Finish	Type	1	100
526424	66180-1R	18-16	A	Pin*	\$.90	\$.70
526432	66181-1	18-16	A	Socket	.82	.76
526459	66103-3R	24-20	C	Pin	.40	.324
526563	1-66103-5	24-20	B	Pin	.34	.303
526361	1-66103-7R	24-20	A	Pin	.49	.39
526379	66105-3R	24-20	C	Socket	.51	.451
526504	1-66105-6	24-20	A	Socket	.40	.304
526475	1-66360-1	18-14	A	Socket	.72	.60
526441	1-66361-1	18-14	A	Pin	.41	.33

## Type XII, Precision Formed Snap-In Crimp Pins

- Material: copper • Assist spring

Part No.	Product No.	AWG	Finish	Type	1	10
527363	66740-6R	16-12	D	Socket	\$6.99	\$5.73
526601	66261-4R	16-12	E	Pin	2.85	2.32



## Size 20DF Contacts

- Material: brass
- Prepackaged: please order in increments of 10

Part No.	Product No.	AWG	Finish	Type	10	100
527531	66505-9R	28-24	A	Socket†	\$.15	\$.136
223221	1-66505-0R	28-24	F	Socket†	.18	.12
223247	745253-6R	26-22	A	Socket†	.177	.157
223298	66504-9R	24-20	A	Socket	.17	.15
223167	1-66506-0R	24-20	F	Pin	.139	.129
223255	1-66504-0R	24-20	F	Socket	.17	.15

† with insulation support

♣ Blue P/N = Limited Quantity Available

AMP

## CPC Accessories

## Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated

♣ Blue Part No. = Limited Quantity Available

Part No.	Product No.	Shell Size	Cable O.D. (max.)	1	10
494047	206062-3	28	.329"	\$2.95	\$2.72
494039	206062-1	28	.329"	3.15	2.84
494063	206070-1	17	.453"	3.19	2.86
493992	206322-1	17	.703"	4.15	3.39
494055	206966-1	13	.453"	3.45	3.07
493984	206358-1♣	11	.453"	3.05	2.73

## Self Centering Cable Clamp

Used in applications where strain relief protection is required and the cable or wire bundle is large and/or stiff.

- Material: black thermoplastic, UL94V-0 rated

Part No.	Product No.	Shell Size	1	10
494021	207774-1	23	\$4.69	\$4.03

## Internal Cable Boot

Provide strain relief capabilities for jacketed cables in applications where aesthetic appearance is essential.

- Shell size: 11

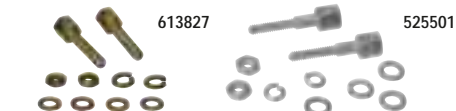
♣ Blue Part No. = Limited Quantity Available

Prepackaged: please order in increments of 10

Part No.	Product No.	Description	10	100
493941	207489-1R	♣ Cable boot	\$2.04	\$1.90

## AMPLIMITE™ D-Sub Retainers & Screw Locks

### Female Screw Locks for Metal Shell and All Plastic Connectors (HDE/HDF/HDP)



- Cold rolled steel, zinc plated

For HD All Plastic Plugs & Receptacles with Integral Stand-Offs

- Thread length: 0.560"

Part No.	Product No.	Finish	Thread Size	1	10
613827	207719-1	Yellow	4-40	\$1.85	\$1.53
525501	747223-3	Clear	2-56	2.59	2.25

### Low Profile Screw Retainer Kit (HDF)

- Cold rolled steel, zinc plated

Part No.	Product No.	Description	1	10
614184	746881-1	Male retainer kit	\$1.65	\$1.48

www.Jameco.com

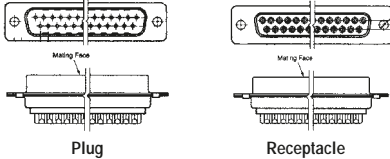
Find more Connectors on our website today!

## AMP D-Sub Connectors

- Dielectric withstanding voltage: 1000VAC (one min.)
- Low-cost, high-performance, precision formed crimp contacts
- Insulation resistance: 5000MΩ
- Nylon, flame retardant, 94V-0 rated, glass filled
- UL/CSA recognized and certified
- Standard mounting method with 0.120" diameter mounting holes

### Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solder wicking contact design



Plug

Receptacle



Part No.	Product No.	Cont.	Description	1	10	100
222957	747904-4	9	Plug .....	\$2.19	\$1.83	\$1.46
222973	747912-4	25	Plug .....	4.43	3.72	2.99
223036	747905-4	9	Receptacle	2.65	2.23	1.76
223044	747913-4	25	Receptacle	4.45	3.99	3.64

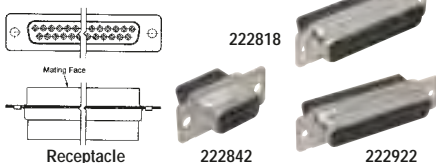
### Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222990	747904-2	9	Plug .....	\$1.79	\$1.73	\$1.64
223001	747908-2	15	Plug .....	2.87	2.69	2.44
223010	747912-2	25	Plug .....	3.89	3.27	2.61
223028	747916-2	37	Plug .....	4.29	3.99	3.70
223052	747905-2	9	Receptacle	2.35	2.09	1.60
223061	747909-2	15	Receptacle	4.14	3.59	3.06
223079	747913-2	25	Receptacle	4.09	3.69	2.72
223087	747917-2	37	Receptacle	5.09	4.59	4.40

### Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



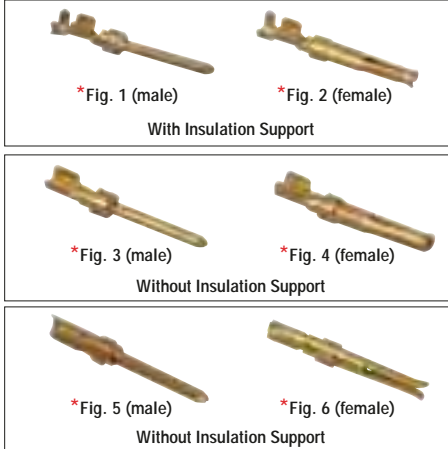
### Tin-Plated Shell

Part No.	Product No.	Cont.	Description	1	10	100
222754	205204-3	9	Plug .....	\$1.49	\$1.19	\$1.07
222797	205204-4	9	Plug* .....	.83	.75	.57
222818	207464-2	25	Plug* .....	.65	.59	.55
222826	205210-3	37	Plug* .....	1.43	1.17	1.07
222834	205212-3	50	Plug* .....	1.46	1.32	1.25
222842	205203-3	9	Recept.	.68	.56	.51
222922	207463-1	25	Recept.	.74	.67	.63

\* With grounding indents

## AMP D-Sub Contacts

- Material: pin: brass; socket: phosphor bronze
- Contact plating
- \*A: Select – gold flash over nickel on entire contact, with additional gold (0.000030") on mating end;
- \*B: gold flash over nickel on entire contact;
- \*C: gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated
- For use with AMP D-sub connectors (see left)
- Minimum order 10 pieces



### Male Crimp Contacts (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
223167	1-66506-0	1B	24-20	\$ .139	\$ .129	\$ .119
838399	2-66506-4	3B	24-20	.. .092	.. .072	.. .049

### Female Crimp Contacts (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221	1-66505-0	2B	28-24	\$ .18	\$ .12	\$ .09
223239	66683-4	2A	28-24	.. .178	.. .139	.. .132
223247	745253-6	2A	26-22	.. .175	.. .127	.. .123
223255	1-66504-0	2B	24-20	.. .17	.. .15	.. .11
860001	66504-4	2B	24-20	.. .128	.. .085	.. .055
223263	205201-7	4B	24-20	.. .15	.. .147	.. .113
223271	5-66504-7	2C	24-20	.. .168	.. .145	.. .123
223280	205201-5	4A	24-20	.. .41	.. .33	.. .25
223298	66504-9	2A	24-20	.. .17	.. .15	.. .13

### Male Solder Contact (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982	66570-3	5A	28-24	\$ .231	\$ .222	\$ .218

### Female Solder Contact (size 20DF)

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319	66569-3	6A	18 (max.)	\$ .225	\$ .18	\$ .162

## AMP D-Sub Pin Insertion/Extraction

### Tools

527582/19094:

Plastic body; metal tips

223327:

Handle with .050" hex wrench and exchangeable tips

Part No.	Description	1	10
19094	Red/white plastic body .....	\$3.65	\$3.21
527582	AMP# 91067-1 .....	6.89	6.55
223327	AMP# 91285-1 .....	19.99	18.99

More Amp D-Sub Connectors at  
[www.jameco.com/Prod/AMPDSUB](http://www.jameco.com/Prod/AMPDSUB)

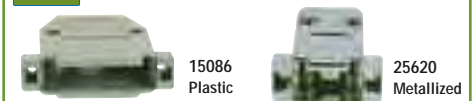
## AMP Plastic Hoods for D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc



Part No.	Product No.	Positions	1	10	100
230893	205729-1	9	\$2.25	\$1.84	\$1.69
230914	205718-1	25	2.19	2.00	1.89

## JAMECO ValuePro D-Sub Connector Hoods



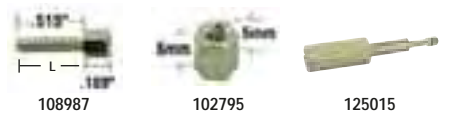
- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: plastic hood with strain relief (gray)  
 MD Series: metal coated plastic hood w/ strain relief  
 MH Series: die-cast metal hood with strain relief

Part No.	Cross Ref.	Connector	1	10	100	1000
15722	DB9H	9-pin	\$.55	\$.51	\$.44	\$.39
25620	MDB9H	9-pin	.. .69	.. .56	.. .445	.. .399
147741	MHDB9	9-pin	1.59	1.43	1.27	1.10
15019	DA15H	15-pin	.. .69	.. .64	.. .57	.. .497
25567	MDA15H	15-pin	.. .75	.. .56	.. .456	.. .393
15086	DB25H	25-pin	.. .54	.. .468	.. .42	.. .384
25604	MDB25H	25-pin	.. .75	.. .60	.. .509	.. .424
15106	MHDB25	25-pin	1.55	1.33	1.22	1.14
15457	DC37H	37-pin	.. .71	.. .66	.. .54	.. .468
25611	MDC37H	37-pin	.. .85	.. .79	.. .68	.. .509
15660	DD50H	50-pin	1.03	.. .88	.. .78	.. .67

## 4-40 Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws and Standoffs



\* Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
196293	.252"L jack screw	\$ .27	\$ .21	\$ .12	\$ .085
169931	.275"L jack screw	.. *	.. .15	.. .112	.. .084
172603	.315"L jack screw	.. *	.. .121	.. .101	.. .076
102816	.435"L jack screw	.. .69	.. .65	.. .59	.. .53
108987	.515"L jack screw	1.05	.96	.87	.77
125015	4-40 x 1.65"L plastic beige thumbscrew	.. .39	.. .35	.. .32	.. .25
175636	.187"L standoff	.. .24	.. .21	.. .15	.. .10
102795	.236"L (6mm) stdf	.. .30	.. .263	.. .188	.. .125

### 4-40 Screw Sets



102808: 4-40 screw (.385"L) and retainer set  
 16548: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

\* Prepackaged: please order in increments of 10

Part No.	Description	10	100	1000
102808	Screw/retainer set	.. .39	.. .35	.. .30
16548	Screw/nut set	.. .74	.. .60	.. .402

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## D-Subminiature Connectors

Quantity SAVE

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)

- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

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### Right Angle PC Mount



#### Metal .318" Set Back

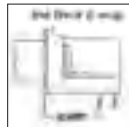
- Short style
- Lead length: .138"
- Lead spacing: .115"
- Current rating: 1A



15150

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100	500
104943	DB9P318	9	M	\$.61	\$.56	\$.50	\$.422
104952	DB9S318	9	F	\$.66	\$.61	\$.54	\$.495
71125	DA15P318	15	M	\$.79	\$.66	\$.61	\$.544
77956	DA15S318	15	F	\$.79	\$.69	\$.65	\$.45
71466	HDB15S318	15	F	\$.59	\$.53	\$.48	\$.39
15150	DB25P318	25	M	\$.89	\$.72	\$.61	\$.494
15182	DB25S318	25	F	1.00	\$.89	\$.81	\$.74
265439	DSUB-25F	25	F	\$.94	\$.84	\$.67	\$.51
71707	DC37P318	37	M	1.05	\$.94	\$.85	\$.70
78183	DC37S318	37	F	1.99	1.65	1.49	1.35

\* High Density



#### Metal .590" Set Back

- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Long style



104978

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
104969	DB9P590	9	M	\$1.07	\$.90	\$.78
104978	DB9S590	9	F	\$.96	\$.85	\$.81
104994	DA15S590	15	F	1.19	1.03	\$.71
105006	DB25P590	25	M	1.01	\$.91	\$.81
105014	DB25S590	25	F	1.29	1.15	1.02

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### IDC Ribbon Cable

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temperature range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: metal; CD: plastic (see cross ref. no.)



12432

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
109226	MDB9P	9	M	\$1.49	\$1.38	\$1.21
12503	CDB9P	9	M	2.49	1.79	1.59
109218	MDB9S	9	F	1.69	1.34	1.17
12521	CDB9S	9	F	2.79	2.51	2.24
117381	MDA15P	15	M	1.98	1.59	\$.88
12299	CDA15P	15	M	1.85	1.47	\$.88
116011	MDA15S	15	F	1.55	1.32	\$.99
12319	CDA15S	15	F	1.79	1.50	\$.73
115983	MDB25P	25	M	2.65	2.38	1.99
12335	CDB25P	25	M	1.99	1.79	1.49
115976	MDB25S	25	F	2.39	2.14	1.80
12432	CDB25S	25	F	2.29	2.11	1.64
115992	MDC37P	37	M	2.49	2.24	1.61
12466	CDC37P	37	M	3.71	3.52	3.29
116004	MDC37S	37	F	3.59	3.26	2.94
12483	CDC37S	37	F	3.89	3.32	2.50

† Requires flat cable w/ .0625" centers    Ⓢ Blue P/N = Limited Quantity

More products online at [www.Jameco.com](http://www.Jameco.com)

JAMECO ValuePro

### Crimp-Type Connectors & Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use P/N 99443, below to crimp 43377, 43369



180890



38771



43369

\* Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
73189	DB9 M housing	\$.49	\$.39	\$.31	\$.19
73197	DB9 F housing	\$.49	\$.39	\$.31	\$.19
73201	DA15 M housing	\$.71	\$.64	\$.58	\$.16
73219	DA15 F housing	\$.75	\$.68	\$.60	\$.528
180882	HDB15 M housing	1.31	1.18	\$.94	\$.70
180890	HDB15 F housing	1.01	\$.89	\$.81	\$.61
38789	DB25 M housing	\$.68	\$.528	\$.432	\$.252
38771	DB25 F housing	\$.55	\$.44	\$.31	\$.21
43377	M crimp pin	*	\$.10	\$.09	\$.08
43369	F crimp pin	*	\$.08	\$.07	\$.06
185421	M crimp pin (180882)	*	\$.055	\$.045	\$.04
185412	F crimp pin (180890)	*	\$.055	\$.05	\$.04
19094	Insert/extract. tool for above pins (HT101)	3.65	3.21	—	—

\* High Density

JAMECO ValuePro

### Metal Solder-Cup

- Compatible with 24 AWG communications pg 104, and 22 AWG solid cable, pg 103



203799

Part No.	Contacts	Gender	1	10	100	1000
15748	9	M	\$.61	\$.47	\$.38	\$.25
15771	9	F	\$.66	\$.55	\$.49	\$.35
15078	15HD	M	\$.81	\$.70	\$.58	\$.37
164823	15HD	F	\$.80	\$.70	\$.60	\$.39
15035	15	M	\$.59	\$.532	\$.456	\$.315
15052	15	F	\$.65	\$.535	\$.426	\$.262
15115	25	M	1.08	\$.97	\$.86	\$.77
15157	25	F	\$.89	\$.80	\$.69	\$.61
203799	26HD	M	\$.65	\$.58	\$.52	\$.49
203782	26HD	F	\$.75	\$.68	\$.61	\$.58
15473	37	M	1.09	\$.92	\$.86	\$.529
15500	37	F	1.43	1.26	1.02	\$.59
15676	50	M	1.98	1.79	1.62	1.19
15691	50	F	1.89	1.48	1.41	1.05

### Other Manufacturers — Great Deals

482687	25	M	\$.80	\$.75	\$.57	\$.43
482708	25	F	\$.80	\$.72	\$.62	\$.45
482724	37	F	\$.89	\$.80	\$.64	\$.48
482732	50	M	1.49	1.34	1.07	\$.81

\* High Density

JAMECO ValuePro

### Metal Straight PC Mount

Quantity SAVE

- Non-removable contacts
- Operating temperature: -65° to +250°F
- Current rating: 5A    • 125 V<sub>RMS</sub>

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
111692	DB9PPCB	9	M	\$.65	\$.502	\$.357
15781	DB9SPCB	9	F	\$.68	\$.56	\$.39
176760	DA15PPCB	15	M	\$.49	\$.44	\$.39
176752	DA15SPCB	15	F	\$.75	\$.65	\$.473
15123	DB25PPCB	25	M	\$.75	\$.65	\$.57
15166	DB25SPCB	25	F	\$.89	\$.81	\$.47
180021	DC37SPCB	37	F	\$.96	\$.90	\$.68

## D-Sub Plugs & Sockets 8200 & 8300 Series

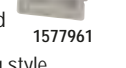
- Improved metal strain relief hooks directly to metal shell
- Insulation: glass filled polyester, gray, UL94V-0
- Low profile
- Contact material: copper alloy
- Plating: 100μ" nickel underplating; 30μ" gold wiping area
- Shell: steel/tin plated
- Strain relief: stainless steel
- Accepts 26-28AWG solid or stranded
- Current rating: 1A
- Open end: 0.120" diameter mounting style
- Insulation resistance: 1MΩ @ 500VDC
- Withstanding voltage: 1000V<sub>RMS</sub>



1577881



1577961



1577961

### Plugs

Part No.	Product No.	Positions	1	10	50
1577881	8209-6000	9	\$4.89	\$4.18	\$4.15
1577910	8215-6000	15	5.65	5.16	4.75
1577928	8225-6000	25	6.39	5.39	5.36
1577944	8237-6000	37	8.29	6.97	6.93

### Sockets

1577961	8309-6000	9	\$5.69	\$4.48	\$4.26
1577987	8315-6000	15	6.99	6.52	6.11
1578007	8325-6000	25	6.45	5.84	5.45
1578031	8337-6000	37	8.39	7.07	7.03

## D-Sub Ribbon Connector Mounting Hardware Kits

- 1575914 / 1575931: kit includes 2pcs. nut-4-40 UNC, lock washer, 0.03" dia. spacer, jack socket screw
- 1575990: 2pcs. jack screw



1575931

Part No.	Product No.	Description	1	10
1575914	3341-1L	0.50" jack socket	\$1.75	\$1.54
1575931	3341-1S	0.13" jack socket	1.49	1.44
1575990	3342-2	0.62" jack screw	1.23	1.05

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## D-Sub Connector Jack Screws

- 4-40 threaded
- Steel, zinc plated
- Length: .312"
- Prepackaged: please order in increments of 5



1582508

Part No.	Product No.	Description	5	50
1582209	7230	Gold color	\$.157	\$.147
1582508	7230-5	Clear chromate	186	157

## Non-Insulated Terminal D-Sub Crimping Tool

### 14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return
- Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25
99443	HT202A	\$9.49	\$8.55	\$7.69

**3M**

## D-Sub EMI Metal Junction Shell **NEW**

- Provides EMI/ESD protection
- Material: steel with nickel plating
- cover nut: glass filled polyester (PBT), UL94V-0 black
- For 9-position D-Sub connectors



Part No.	Product No.	Conn.	Size	1	10	50
1576044	3357-9209	♂	9	\$3.85	\$3.51	\$3.32

## Cinch D-Sub Metal Junction Shells

- Shell material: zinc plated low carbon steel with yellow chromate finish
- Clamp & screw: zinc plated steel with yellow chromate finish
- Stop nut: zinc plated brass with yellow chromate finish



**Right Angle Clamp** **NEW** 1775916

Part No.	Product No.	Shell Size	Density	1	25
446862	DA-19977-1	A	15	\$3.75	\$3.46
446871	DB-19977-2	B	25	3.49	3.25

### Deep Straight Clamp

446926	DA-24658	A	15	\$3.49	\$3.45
446918	DC-24660	C	37	2.85	2.62

### Round Clamp

1775916	DA-20961	A	15	\$6.35	\$6.05
1719551	DB-20962	B	25	5.19	4.09

## Cinch D-Sub Metal Shell Vertical PCB

- Insulator material: glass filled polyester, black, UL94V-0 rated
- Contact material: phosphor bronze
- Contact plating: gold flash in mating area, tin/lead on solder tails, all over nickel
- Metal shell: steel w/ tin plating
- Withstanding voltage: 1000V<sub>RMS</sub>
- Current rating: 5A • Contact res.: 15mΩ max.
- Insulation resistance: 5000MΩ max.



Part No.	Product No.	Positions	Gender	1	25
458100	DEKL-9SUT	9	F	\$.52	\$.46

## Cinch D-Sub Hoods **NEW**

### D + H Two Piece Backshells

- Diecast metal
- Maximum shielding
- Includes: 4-40 screws, hex nuts, mounting bracket, grommet



Part No.	Product No.	Shell Size	Density	1	25
446811	DMH-E-001	E	9	\$3.99	\$3.61

### Straight (180°)

- 446782: ABS metalized plastic with nickel over copper plating, hardware – zinc plating
- 446694: Nylon, gray, 4-40 screws steel with nickel plating
- 446678: Phenolic hood black, 4-40 screws steel with nickel plating



Part No.	Product No.	Shell Size	Density	1	25
446782	DCH-B-001	B	25	\$3.39	\$3.35
446694	DA-51210-1	A	15	3.95	3.65
446678	DB-51226-1A	B	25	3.65	2.86

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## Cinch D-Sub Metal Shells

- Insulator material: glass filled polyester (black) UL94V-0 rated • Current: 5A
- Insulation resistance: 5000MΩ max. (initial)
- Durability: 500 mating cycles

### Right Angle

- Contact material: socket – phosphor bronze (stamped); plugs – brass (stamped)
- Contact plating: gold flash, tin/lead on tails over nickel
- Metal shell: steel w/ tin plating (grounding indents on plugs) • Contact resistance: 15mΩ max.
- 0.318" foot print • Boardlock: brass w/ tin plating
- Female screwlocks: brass w/ nickel plating
- Withstanding voltage: 1250V<sub>RMS</sub>



### With 4-40 threaded inserts

Part No.	Product No.	Positions	Gender	1	25
1719885	DEKL-9PATI-E	9	M	\$.88	\$.54
1775908	DEKL-9SAT-E	9	F	.84	.73
458046	DAKL-15SAT-E	15	F	1.00	.95
446483	DBKL-25SAT-E25	25	F	1.23	1.09

### With female screwlocks

1719893	DEKL-9PATI-F	9	M	\$.85	\$.76
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### D Series w/ Mounting Holes, Solder Cup

- Connector shell: steel w/ zinc plating, yellow chromate finish or tin plating (grounding indents on plugs)
- 4-40 clinch nut: steel w/ cadmium plating and yellow chromate finish
- Contact material: copper alloy; plating: stamped contacts – gold flash • Contact res.: 2.7mΩ max.
- Dual float bushing: stainless steel, passivated
- Withstanding voltage: 1250V<sub>RMS</sub>



Part No.	Product No.	Positions	Gender	1	25
457959	DE-9P	9	M	\$1.79	\$1.60
458118	DA-15P	15	M	3.39	2.98
458142	DA-15S	15	F	2.49	2.21
458126	DB-25P	25	M	2.05	1.95
458151	DB-25S	25	F	3.35	2.97

## Cinch D-Sub Dust Caps

- For use with Cinch D-Sub connectors
- Protects connector contacts when not mated
- Material: polyethylene, black



Part No.	Product No.	Std.	Density	Gender	1	25
448411	DE-59-20	9	Socket	..	\$1.15	\$1.10
448403	DE-60-20	9	Plug	.....	1.65	1.50
448382	DB-60-20	25	Plug	.....	.95	.91

## Cinch D-Sub Accessories

- Female screwlocks: (2) washers, lockwasher, hex nut, nut are steel with zinc plating and yellow chromate finish
- Male screwlocks: clip and screw are steel with zinc plating and yellow chromate finish



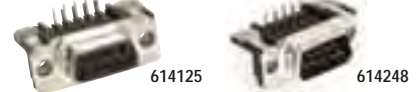
Part No.	Product No.	Description	Length	1	25
1719746	D-20418-2	Screw lock F 0.312"	..	\$1.35	\$1.20
449412	D-20418-39	Screw lock F 0.628"	..	1.25	1.11
1775924	D-20419-0	Screw lock M 0.250"	....	.52	.47
1775932	D-20419-16	Screw lock M 0.250"	....	.81	.71
1719771	D-20420-12	Screw lock M 0.281"	....	.91	.86

### Latching Block

446926	DA-24658	Latching block	—	..	\$3.49	\$3.45
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## AMP AMPLIMITE™ D-Sub Connectors

### HD-20 Right Angle PCB Mount 0.318" Setback



- Housing: 94V-0 rated thermoplastic, black
- Front shell: steel, tin plated • Lead length: 0.125"
- Lead diameter: 0.026" • Lead spacing: 0.108"
- Socket plating: A: 30μ" gold mating end, tin-lead terminating end, nickel under plated; B: gold flash mating end, tin-lead terminating end, nickel under plated

### Without board locks, w/ threaded inserts

Part No.	Product No.	Plating	Pins	Gender	1	25
614125	745781-4	A	9	F	\$2.05	\$1.93
614248	745250-4	A	9	M	2.59	2.33
614141	745783-4	A	25	F	2.85	2.45

### With board locks, w/ threaded inserts

Part No.	Product No.	Plating	Pins	Gender	1	25
614504	747844-4	A	9	F	\$2.09	\$2.00
614441	747840-4	A	9	M	1.45	1.29
614539	747845-4	A	15	F	2.15	1.98
614467	747841-4	A	15	M	2.19	1.98
614555	747846-4	A	25	F	2.35	2.33
614475	747842-4	A	25	M	3.25	2.92
614547	747846-3	B	25	F	2.59	2.29

### HDE-20 Metal Shell IDC Connectors

- Front shell: steel, tin plated
- Contacts: phosphor bronze
- Plating: 30μ" gold on mating end, tin-lead on termination end, with entire contact nickel underplated
- Contact identification No. 2 for 26-22AWG



Part No.	Product No.	Pins	Gender	1	10	100
614070	747491-2	9	F	\$2.85	\$2.30	\$2.01

### HDF-20 Low Profile Metal Shell (For Round Conductor Flat Ribbon Cable)



- Housing cover and cable stabilizer: 94V-0 rated thermoplastic, black
- Front shell: steel, tin plated
- Contacts: phosphor bronze with 30μ" gold on mating end, 100μ" bright tin-lead terminating end, nickel underplated

### With standard mounting holes

Part No.	Product No.	Pins	Gender	1	10	100
614328	747303-4	9	F	\$4.99	\$4.46	\$3.55
614361	747306-4	9	M	4.69	4.16	3.84
614310	747303-3	15	F	5.55	5.27	4.74
614352	747306-3	15	M	5.59	4.75	4.37
614301	747303-2	25	F	7.25	6.15	5.69
614344	747306-2	25	M	7.09	6.33	5.56
614299	747303-1	37	F	9.29	8.39	7.49
614336	747306-1	37	M	9.69	8.46	7.79

### Thermoplastic body w/ standard mounting holes

Part No.	Product No.	Pins	Gender	1	10	100
614387	747318-4	9	F	\$4.45	\$3.86	3.38
614408	747321-4	9	M	4.85	4.12	3.61
614379	747318-2	25	F	6.65	5.99	5.25

## AMP AMPLIMITE™ D-Sub Connector Accessories

- Die cast shield material and finish: zinc alloy, plated bright nickel over bright copper
- Plastic shield: thermoplastic black
- 4-40 fillister head screws & hex nuts: steel, zinc plated
- 4-40 mounting screws: steel zinc plated
- Jackscrews: stainless steel, passivated



### Die cast cable clamps

Part No.	Product No.	Cable (O.D) max.	1	10
614037	745171-2	0.200"	\$5.45	\$5.02

### Jackscrews

Part No.	Product No.	Thread Size	1	10
525544	747784-8	4-40	\$4.79	\$4.70
614424	747784-3	4-40	1.89	1.73

### Spring Latch

- Material: stainless steel (for use w/ HDE & HDP metal shell)

Part No.	Product No.	1	10
614117	745779-2	\$ .99	\$ .90

## AMP AMPMODU™ Interconnection ZIF-Line Connector

- 0.050" x 0.050" centerline cable to board connector
- Housing and cover: black thermoplastic, flame retardant, 94V-0 rated
- Contacts: phosphor bronze, plated 150µ" bright tin over 50µ" nickel on entire contact

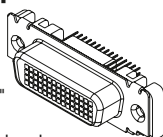


Part No.	Product No.	Positions	1	10	100
752667	487576-6	14	\$1.79	\$1.63	\$1.48

## molex .050" (1.27mm) Pitch LFH™ Matrix 50 Shielded Receptacle

### 60 Circuit, Vertical

- High-performance, Low Force Helix terminal with contact layout .050" x .050"
- Same size as 15-pin D-sub for standard panel cut-outs and hardware use
- Voltage: 40V • Current: 1A • Durability: 50 cycles
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 500V
- Insulation resistance: 100MΩ min.
- Housing: glass filled polymer, UL94V-0
- Contact: beryllium copper alloy
- Plating: 30µ" min. gold over nickel in contact area, 100µ" min. tin/lead over nickel in PC tail area, 150µ" min. bright tin over nickel all over copper flash on shields



Part No.	Product No.	1	10	100
802222	70928-0002	\$16.39	\$15.64	\$14.88

## molex .079" (2.00mm) Pitch Micro SPOX™ Header

### Vertical with Friction Lock

- Wire to board
- Single row
- UL94V-0 Rated
- Insulation resistance: 1000MΩ min.
- Withstanding voltage: 500VAC/1 min.
- Housing: PA Polyamide (nylon) 6/6
- Contact: brass, tin plated, copper underplating



Part No.	Product No.	Current	Voltage Rating	Contact Resistance	Positions	1	10	100
520786	10-32-1023	1A	125V	20mΩ max.	2	\$ .33	\$2.97	\$2.71

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## molex .062" (1.57mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Polarized housing assures proper mating
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- Temp. range: -40°C to +105°C
- Housing: nylon: UL94V-2
- Current: 5.0A

### Plugs



### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224485	03-06-2023	2	\$ .30	\$ .18	\$ .15
224506	03-06-2042	4	.24	.223	.206
224514	03-06-2044	4	.26	.202	.189
224522	03-06-2061	6	.45	.28	.25

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948	03-06-2024	2	\$ .37	\$ .308	\$ .223
230041	03-06-2062	6	.47	.26	.24

\*In-line \*\*Grid

### Receptacles



### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224400	03-06-1023	2	\$ .33	\$ .198	\$ .149
224418	03-06-1032	3	.31	.19	.16
224426	03-06-1042	4	.36	.28	.266
224434	03-06-1044	4	.39	.27	.24
224442	03-06-1062	6	.54	.336	.30

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956	03-06-1022	2	\$ .31	\$ .16	\$ .14

\*In-line

## Hand Crimp Tools

These tools are designed to crimp terminals, strip and cut wires, and cut bolts. For Molex crimp pin terminals with .062" & .093" diameters and KK® series on pages 122 - 123.



308030: Cuts & strips 14-24 AWG wires  
227491: Cuts & strips 18-30 AWG wires

Part No.	Product No.	Length	Color	1	5
308030	W-HT-1919	8.3"L	Red	\$14.99	\$13.99
227491	W-HT-1921	8.3"L	Yellow	14.99	13.99

## molex .093" (2.36mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- Temp. range: -40°C to +105°C
- Housing: nylon: UL94V-2
- Current: 12A per circuit

### Plugs



### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224071	03-09-2022	2	\$ .30	\$ .25	\$ .18
224080	03-09-2032	3	.41	.32	.21
224098	03-09-2042	4	.45	.22	.20
229825	03-09-2049	4	.46	.368	.351
224101	03-09-2062	6	.49	.39	.29
224119	03-09-2092	9	.27	.261	.196
224127	03-09-2121	12	.42	.358	.269

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105	03-09-2021	2	\$ .25	\$ .20	\$ .15
230181	03-09-2061	6	.42	.396	.30

\*In-line \*\*Grid

### Receptacles



### Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224143	03-09-1022	2	\$ .30	\$ .25	\$ .18
224151	03-09-1032	3	.44	.25	.16
224160	03-09-1042	4	.46	.25	.22
229817	03-09-1049	4	.34	.299	.257
224178	03-09-1064	6	.25	.228	.206
224186	03-09-1094	9	.83	.71	.468

\*In-line \*\*Grid

### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113	03-09-1027	2	\$ .23	\$ .188	\$ .168

\*In-line \*\*Grid

## Connector Extraction Tools



Part No.	Product No.	AWG	1	10
142156	W-HT-2285	18-30	\$14.49	\$13.49
227467	W-HT-2023	18-30	11.99	10.99
142236	W-HT-2038	14-30	14.49	13.49
227395	W-HT-2054	14-30	12.59	11.54
236128	W-HT-1884	22-30	9.99	8.99
234940	11-03-0022	22-30	14.99	12.99



## .062" (1.57mm) & .093" (2.36mm) Contacts

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Prepackaged: please order in increments of 10
- Tin plating

### Crimp-Type Contacts

		Male		Female					
		.062" (1.57mm)				10	100	1000	
Part No.	Product No.	Gender	AWG						
224565	02-06-2103	M	18-24			\$ .18	\$ .057	\$ .038	
224581	02-06-2132	M	24-30			.188	.05	.04	
224557	02-06-1103	F	18-24			.18	.057	.038	
224573	02-06-1132	F	24-30			.07	.056	.038	

		Male		Female					
		.093" (2.36mm)				10	100	1000	
Part No.	Product No.	Gender	AWG						
224207	02-09-2118	M	18-22			\$ .19	\$ .06	\$ .04	
224223	02-09-2103	M	14-20			.18	.059	.04	
224215	02-09-1119	F	18-22			.20	.07	.04	
224231	02-09-1104	F	14-20			.18	.059	.042	

### Solder-Tail Contacts

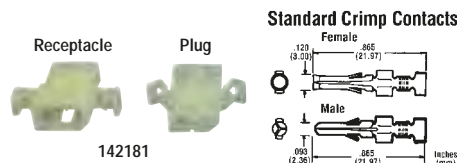
		Male		Female					
		.093" (2.36mm)				10	100	1000	
Part No.	Product No.	Gender	AWG						
224240	02-09-2133	Male				\$ .19	\$ .15	\$ .103	
224258	02-09-1134	Female				.20	.14	.09	



## .093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

- Voltage: 250VAC
- Temp. range: -40°C to +105°C
- 142181: • 3 each 2-pin plugs & receptacles, 8 each female & male contacts • Current: 12A
- 142201: • 2 each 4-pin plugs & receptacles, 10 each female & male contacts • Current: 9A



Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Product No.	Description	1	10	50
142181	1545	2-pin kit	\$4.95	\$4.49	\$3.95
142201	1490	4-pin kit	\$5.69	\$5.15	\$4.65

## AMP AMPMODU™ Shunts

### 2-Position Low Profile

For more AMP Shunts visit [www.Jameco.com](http://www.Jameco.com)

- 94V-0 rated housing
- 0.100" centerlines
- One-piece contact construction
- High normal forces
- Contacts: phosphor bronze
- Prepackaged: please order in increments of 10

Part No.	Product No.	Color	Plating	10	100	500
836908	2-382811-1	Blk	Tin	\$ .089	\$ .073	\$ .072
421454	382811-8	Blk	5µ" gold	.087	.079	.075
944001	382811-9	Red	15µ" gold	.189	.121	.116

⚡ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.



## .100" (2.54mm) Male Solid Headers (Gold)

- Solder to PC boards for instant plug-in access via shorting blocks, pg 119
- Insulator: UL94V-0 polyester
- Contact material: phosphor bronze
- .025" square posts on a .100" x .100" matrix
- Current rating: 1 amp
- Contact area: gold

- Snap apart to fit your application
- Temperature range: -55°C to +120°C
- Use with crimp connector housing, pg 130
- \* Prepackaged: please order in increments of 10



Quantity SAVE

### .100" Right Angle Single Row Male Headers

Part No.	Ref. No.	Contacts	1	10	100	1000
153728	RMH08	8	\$ .49	\$ .45	\$ .35	\$ .29
103271	RMH36	36	.90	.77	.70	.492

### .100" Right Angle Double Row Male Headers

Part No.	Ref. No.	Contacts	1	10	100	1000
203908	923804DR	4	\$ .38	\$ .34	\$ .27	\$ .20
203917	923806DR	6	.49	.44	.30	.24
203924	923808DR	8	.49	.44	.35	.26
203932	923810DR	10	.69	.62	.56	.46
203959	923814DR	14	.65	.58	.47	.352
203967	923816DR	16	.78	.71	.64	.516
203975	923818DR	18	.75	.68	.54	.41
53575	923820DR	20	.69	.64	.58	.51
53584	923826DR	26	.75	.65	.531	.375
53605	923840DR	40	.89	.79	.60	.53
53612	923850DR	50	.95	.81	.62	.54
103414	923872DR	72	1.35	1.13	1.02	.86
139563	923880DR	80	1.49	1.25	1.15	1.05

### .100" Straight Single Row Male Headers

Part No.	Ref. No.	Contacts	1	10	100	1000
108338	SMH02	2	* \$ .16	* \$ .14	* \$ .13	
109576	SMH03	3	* .17	.15	.135	
117560	SMH04	4	* .17	.15	.135	
153700	SMH06	6	* .17	.15	.135	
153702	SMH08	8	.22	.20	.17	.15
103393	SMH10	10	* .18	.14	.10	
103377	SMH17	17	* .16	.14	.13	
103369	SMH20	20	.30	.27	.248	.227
202825	SMH22	22	.39	.36	.29	.21
103351	SMH25	25	* .266	.224	.171	
103342	SMH30	30	.36	.319	.288	.258
68339	SMH36	36	.44	.399	.357	.305
160882	SMH40	40	.57	.52	.47	.42

### .100" Straight Double Row Male Headers

Part No.	Ref. No.	Contacts	1	10	100	1000
115028	923804DS	4	.21	\$ .11	\$ .09	\$ .07
115035	923806DS	6	.23	.211	.187	.164
109516	923808DS	8	.25	.23	.18	.16
67821	923810DS	10	.35	.29	.25	.19
203810	923812DS	12	.60	.55	.49	.44
118456	923814DS	14	.45	.40	.36	.33
109568	923816DS	16	.55	.49	.45	.39
203828	923818DS	18	.78	.71	.66	.57
53480	923820DS	20	.65	.57	.49	.46
203836	923822DS	22	.78	.70	.56	.42
203844	923824DS	24	.70	.65	.59	.49
203852	923828DS	28	.75	.69	.55	.39
203861	923832DS	32	.80	.74	.59	.52
53517	923834DS	34	.85	.78	.69	.62
203888	923836DS	36	.96	.87	.70	.516
53560	923850DS	50	.72	.62	.55	.51
68574	923860DS	60	.79	.71	.57	.423
103405	923872DS	72	.94	.83	.76	.64
117197	923880DS	80	1.08	.96	.90	.78

### Other Manufacturers — Great Deals

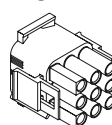
53495	923826DS	26	\$ .35	\$ .299	\$ .237	\$ .178
53532	923840DS	40	.59	.53	.42	.31

⊕ Blue Part No. = Limited Quantity Available



## .084" (2.13mm) MLX Pin and Socket Plug

- Interchangeable, intermountable, and interchangeable with industry standard versions
- Positive locks
- Voltage: 600V
- Current: 13.5A
- Fully isolated contacts
- Insulation resistance: 1000Mfl min.
- Dielectric withstanding voltage: 2900V (headers), 5000V (wire-to-wire)
- Anti-stress positioning tabs to reduce breakage
- Plug housing: white nylon, UL 94V-2 rated
- Operating temperature: -55°C to 105°C



Part No.	Prod. No.	Grid Layout	1	10
800921	50-84-1020	1 x 2	\$ .233	\$ .211

### Crimp Terminal

- 14-20 AWG
- Tin plated
- Male
- Prepackaged: please order in increments of 10

Part No.	Prod. No.	10	100
734709	02-08-2003	\$ .033	\$ .03



## .100" & 2mm Shorting Blocks



- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color codes strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze
- Open: open on top to allow for a test point
- Closed: closed top

### 119264: 2mm (for disk drives)

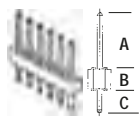
- Prepackaged: please order in increments of 10

Part No.	Description	10	100	1000
22023	Top open, black (.100")	\$ .12	\$ .09	\$ .06
119264	Top open, black (2mm)	.15	.13	.096
112425	Top open, blue (.100")	.133	.099	.067
112417	Top open, red (.100")	.12	.09	.06
19141	Top closed, black (.100")	.12	.09	.06
112442	Top closed, blue (.100")	.12	.09	.06
112432	Top closed, red (.100")	.20	.18	.12
152671	Top closed, black (.100")	.19	.15	.12

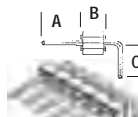
JAMECO ValuePro

## .100" (2.54mm) Male Breakaway Headers

- Insulation resistance: 1,000MΩ min.
- Contact resistance: 20mΩ initial max.
- Withstanding voltage: 500VAC/1 minute
- Voltage rating: 250VDC
- Current rating: 3A
- Housing: glass filled polyester, black (UL94V-0)
- Contact: 0.64mm (0.025") square



Straight



Right Angle

### Tin Straight Single Row

- (A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685708	22-28-4022	2	..... \$ .20	\$ .066	\$ .063
685716	22-28-4032	3	..... \$ .20	.119	.113
685724	22-28-4042	4	..... \$ .20	.183	.177
685732	22-28-4052	5	..... \$ .29	.27	.257
685741	22-28-4062	6	..... \$ .34	.314	.299
685759	22-28-4072	7	..... \$ .38	.345	.326
685767	22-28-4082	8	..... \$ .40	.37	.358
685775	22-28-4092	9	..... \$ .42	.398	.388
685783	22-28-4102	10	..... \$ .54	.496	.477
685791	22-28-4112	11	..... \$ .60	.57	.534
685804	22-28-4122	12	..... \$ .66	.62	.59

### Tin Straight Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686188	22-28-4020	2	..... \$ .23	\$ .191	\$ .175
686196	22-28-4030	3	..... \$ .24	.209	.198
686209	22-28-4040	4	..... \$ .30	.258	.23
686217	22-28-4050	5	..... \$ .34	.299	.266
686225	22-28-4060	6	..... \$ .35	.299	.266
686233	22-28-4070	7	..... \$ .35	.316	.292
686241	22-28-4080	8	..... \$ .40	.349	.31
686250	22-28-4090	9	..... \$ .46	.391	.346
686268	22-28-4100	10	..... \$ .47	.399	.355
686276	22-28-4360	36	..... \$ .96	.83	.76

### Gold Straight Single Row

- (A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685839	22-28-4025	2	..... \$ .44	\$ .391	\$ .346
685847	22-28-4035	3	..... \$ .46	.435	.413
685855	22-28-4045	4	..... \$ .73	.61	.58
685863	22-28-4055	5	..... \$ .98	.86	.82
685871	22-28-4065	6	..... \$ 1.08	.96	.91
685880	22-28-4075	7	..... \$ 1.27	1.12	1.00
685898	22-28-4085	8	..... \$ 1.45	1.27	1.25
685901	22-28-4095	9	..... \$ 1.65	1.42	1.40
685919	22-28-4105	10	..... \$ 1.79	1.58	1.55
685927	22-28-4115	11	..... \$ 1.99	1.74	1.62
685935	22-28-4125	12	..... \$ 2.15	1.88	1.85

### Gold Straight Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686292	22-28-4023	2	..... \$ .20	\$ .182	\$ .173
686305	22-28-4033	3	..... \$ .27	.245	.233
686313	22-28-4043	4	..... \$ .28	.253	.24
686321	22-28-4053	5	..... \$ .29	.261	.248
686330	22-28-4063	6	..... \$ .29	.261	.248
686348	22-28-4073	7	..... \$ .29	.261	.248
686356	22-28-4083	8	..... \$ .30	.269	.256
686364	22-28-4093	9	..... \$ .37	.34	.323
686372	22-28-4103	10	..... \$ .37	.34	.323
686381	22-28-4363	36	..... \$ 1.39	1.09	1.04

### Tin Right Angle Single Row

- (A) .309"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685960	22-28-6020	2	..... \$ .20	\$ .172	\$ .154
685978	22-28-6030	3	..... \$ .27	.249	.227
685986	22-28-6040	4	..... \$ .35	.338	.325
685994	22-28-6050	5	..... \$ .46	.428	.375
686006	22-28-6060	6	..... \$ .59	.516	.454
686014	22-28-6070	7	..... \$ .65	.498	.486
686022	22-28-6080	8	..... \$ .79	.69	.61
686031	22-28-6090	9	..... \$ .60	.56	.544
686049	22-28-6100	10	..... \$ .64	.59	.57
686057	22-28-6110	11	..... \$ .66	.65	.62
686065	22-28-6120	12	..... \$ .69	.63	.62

### Tin Right Angle Single Row

- (A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686401	22-28-8020	2	..... \$ .28	\$ .238	\$ .226
686410	22-28-8030	3	..... \$ .24	.219	.208
686428	22-28-8040	4	..... \$ .38	.333	.316
686436	22-28-8050	5	..... \$ .41	.36	.342
686444	22-28-8060	6	..... \$ .41	.36	.342
686452	22-28-8070	7	..... \$ .51	.455	.432
686461	22-28-8080	8	..... \$ .51	.455	.432
686479	22-28-8090	9	..... \$ .54	.418	.396
686487	22-28-8100	10	..... \$ .46	.428	.406
686495	22-28-8360	36	..... \$ 1.29	1.02	.97

### Gold Right Angle Single Row

- (A) .309"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686073	22-28-6022	2	..... \$ .38	\$ .357	\$ .342
686081	22-28-6032	3	..... \$ .62	.522	.496
686090	22-28-6042	4	..... \$ .62	.59	.56
686102	22-28-6052	5	..... \$ .99	.88	.78
686111	22-28-6062	6	..... \$ .89	.87	.83
686129	22-28-6072	7	..... \$ .93	.83	.75
686137	22-28-6082	8	..... \$ 1.19	1.10	1.08
686145	22-28-6092	9	..... \$ 1.29	1.20	1.08
686153	22-28-6102	10	..... \$ 1.31	1.22	1.14
686161	22-28-6112	11	..... \$ 1.35	1.23	1.17
686170	22-28-6122	12	..... \$ 1.53	1.24	1.20

JAMECO ValuePro

## .100" (2.54mm) Pitch Solid Headers

- Voltage rating: 250VAC
- Contact material: brass, tin plated 0.025" square posts
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/1 minute
- Current rating: 3A
- Contact resistance: 20mΩ max.

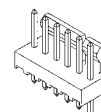


### Straight with Friction Lock

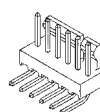
Part No.	Cross Ref. No.	Pos.	1	10	25
687957	22-23-2021	2	..... \$ .20	\$ .174	\$ .155
687965	22-23-2031	3	..... \$ .26	.206	.192
687973	22-23-2041	4	..... \$ .32	.262	.243
687981	22-23-2051	5	..... \$ .38	.312	.294
687990	22-23-2061	6	..... \$ .44	.357	.337
688001	22-23-2071	7	..... \$ .38	.363	.347
688028	22-23-2081	8	..... \$ .51	.486	.459
688036	22-23-2091	9	..... \$ .59	.518	.468
688044	22-23-2101	10	..... \$ .69	.60	.532
688052	22-23-2111	11	..... \$ .64	.61	.58
688061	22-23-2121	12	..... \$ .60	.58	.56

### Right Angle with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
688212	22-05-3021	2	..... \$ .33	\$ .323	\$ .307
688221	22-05-3031	3	..... \$ .34	.319	.279
688239	22-05-3041	4	..... \$ .44	.42	.40
688247	22-05-3051	5	..... \$ .42	.396	.377
688255	22-05-3061	6	..... \$ .59	.548	.506
688263	22-05-3071	7	..... \$ .74	.71	.70
688271	22-05-3081	8	..... \$ .71	.68	.66
688280	22-05-3091	9	..... \$ .86	.81	.78
688298	22-05-3101	10	..... \$ .81	.75	.72
688301	22-05-3111	11	..... \$ .78	.76	.72
688319	22-05-3121	12	..... \$ .71	.68	.61



Straight



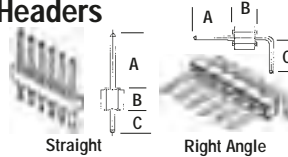
Right Angle

We will be adding hundreds of new connectors in the coming months. Check [www.Jameco.com](http://www.Jameco.com) frequently for all the newest additions.



## .100" (2.54mm) Male Breakaway Headers

- Voltage rating: 250VDC
- Contact resistance: 20mΩ initial max.
- Withstanding voltage: 500VAC/1 minute
- Housing: glass filled polyester, black (UL94V-0)
- Contact: 0.64mm (0.025") square
- Insulation resistance: 1,000MΩ min.
- Current rating: 3A



### 2556 Series Tin — Straight Single Row

- (A) 0.240"; (B) 0.100"; (C) 0.125"

Part No.	Cross Ref. No.	Pos.	1	10	25
677038	2556P02TL62R	2	.....\$ .20	\$.066	\$.063
677046	2556P03TL62R	3	......22	.143	.136
677054	2556P04TL62R	4	......20	.183	.177
677062	2556P05TL62R	5	......29	.27	.257
677071	2556P06TL62R	6	......34	.314	.299
677089	2556P07TL62R	7	......35	.335	.321
677097	2556P08TL62R	8	......40	.37	.358
677100	2556P09TL62R	9	......42	.386	.381
677118	2556P10TL62R	10	......45	.418	.407
677126	2556P11TL62R	11	......47	.441	.431
677134	2556P12TL62R	12	......50	.477	.453

### 2556 Series Tin — Straight Single Row

- (A) 0.925"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
678971	2556P02TL58R	2	.....\$ .23	\$ .191	\$ .175
678989	2556P03TL58R	3	......20	.183	.172
678997	2556P04TL58R	4	......30	.258	.23
679009	2556P05TL58R	5	......34	.299	.266
679017	2556P06TL58R	6	......35	.299	.266
679025	2556P07TL58R	7	......35	.316	.292
679033	2556P08TL58R	8	......40	.349	.31
679041	2556P09TL58R	9	......46	.391	.346
679050	2556P10TL58R	10	......47	.399	.355
679068	2556P36TL58R	36	......96	.83	.76

### 2556 Series — Gold Straight Single Row

- (A) 0.286"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
677142	2556P02WB00R	2	.... \$44	\$391	\$346
677151	2556P03WB00R	3	..... 46	.435	.413
677169	2556P04WB00R	4	..... 73	.61	.58
677177	2556P05WB00R	5	..... 98	.86	.82
677185	2556P06WB00R	6	..... 1.16	1.01	.99
677193	2556P07WB00R	7	.... 1.27	1.12	1.09
677206	2556P08WB00R	8	.... 1.45	1.27	1.25
677214	2556P09WB00R	9	.... 1.65	1.42	1.40
677222	2556P10WB00R	10	.... 1.79	1.58	1.55
677231	2556P11WB00R	11	.... 1.99	1.74	1.62
677249	2556P12WB00R	12	.... 2.15	1.88	1.85

### 2556 Series — Gold Straight Single Row

- (A) 0.240"; (B) 0.100"; (C) 0.125"

Part No.	Cross Ref. No.	Pos.	1	10	25
679084	2556P02JL62R	2	.....\$21	\$.191	\$.177
679092	2556P03JL62R	3	.....30	.258	.233
679105	2556P04JL62R	4	.....30	.266	.241
679113	2556P05JL62R	5	.....31	.274	.249
679121	2556P06JL62R	6	.....35	.314	.294
679130	2556P07JL62R	7	.....35	.314	.298
679148	2556P08JL62R	8	.....36	.323	.308
679156	2556P09JL62R	9	.....45	.407	.388
679164	2556P10JL62R	10	.....45	.407	.366
679172	2556P36JL62R	36	....1.39	1.09	1.04

If you're not completely satisfied  
 with your purchase, simply return the product  
 within 30 days for a refund or exchange.  
 Details on page 246.

### 2557 Series Tin — Right Angle Single Row

- (A) 0.309"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
677505	2557P02T000R	2	.....\$20	\$.172	\$.154
677513	2557P03T000R	3	......27	.249	.227
677521	2557P04T000R	4	......40	.342	.289
677530	2557P05T000R	5	......46	.428	.375
677548	2557P06T000R	6	......59	.516	.454
677556	2557P07T000R	7	......65	.498	.486
677564	2557P08T000R	8	......79	.69	.61
677572	2557P09T000R	9	......60	.56	.544
677581	2557P10T000R	10	......90	.78	.68
677599	2557P11T000R	11	......62	.57	.548
677601	2557P12T000R	12	......69	.63	.62

### 2557 Series Tin — Right Angle Single Row

- (A) 0.244"; (B) 0.100"; (C) 0.120"

Part No.	Cross Ref. No.	Pos.	1	10	25
679199	2567P02TL39R	2	.....\$28	\$238	\$226
679201	2567P03TL39R	3	.....24	.219	.208
679210	2567P04TL39R	4	.....38	.333	.316
679228	2567P05TL39R	5	.....41	.36	.342
679236	2567P06TL39R	6	.....41	.36	.342
679244	2567P07TL39R	7	.....51	.455	.432
679252	2567P08TL39R	8	.....51	.455	.432
679261	2567P09TL39R	9	.....54	.418	.396
679279	2567P10TL39R	10	.....46	.428	.406
679287	2567P36TL39R	36	....1.37	1.07	1.02

### 2557 Series — Gold Right Angle Single Row

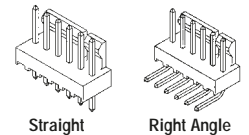
- (A) 0.309"; (B) 0.100"; (C) 0.118"

Part No.	Cross Ref. No.	Pos.	1	10	25
677628	2557P02U000R	2	.....\$ .38	\$ .357	\$ .342
677644	2557P03U000R	3	......62	.522	.496
677652	2557P04U000R	4	......62	.59	.56
677871	2557P05U000R	5	......99	.88	.78
677880	2557P06U000R	6	......90	.80	.72
677898	2557P07U000R	7	......93	.83	.75
677901	2557P08U000R	8	.....1.19	1.10	1.08
677919	2557P09U000R	9	.....1.18	1.12	1.06
677927	2557P10U000R	10	.....1.49	1.28	1.24
677935	2557P11U000R	11	.....1.35	1.23	1.17
677943	2557P12U000R	12	.....1.53	1.24	1.20



## .100" (2.54mm) Pitch Solid Headers

- Voltage rating: 250VAC
- Contact material: brass, tin plated 0.025" square posts
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/1 minute
- Current rating: 3A
- Contact resistance: 20mΩ max.



### Straight with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
677257	2571P02V000R	2	.....\$20	\$174	\$155
677265	2571P03V000R	3	.....26	.206	.192
677273	2571P04V000R	4	.....32	.262	.243
677281	2571P05V000R	5	.....38	.312	.294
677290	2571P06V000R	6	.....44	.357	.337
677302	2571P07V000R	7	.....38	.363	.347
677311	2571P08V000R	8	.....51	.486	.459
677329	2571P09V000R	9	.....59	.518	.468
677337	2571P10V000R	10	.....69	.60	.532
677345	2571P11V000R	11	.....64	.61	.58
677353	2571P12V000R	12	.....70	.62	.56

### Right Angle with Friction Lock

Part No.	Cross Ref. No.	Pos.	1	10	25
677960	2571P02H000R	2	.....\$ .33	\$.323	\$.307
678006	2571P03H000R	3	......34	.319	.279
678014	2571P04H000R	4	......44	.42	.40
678022	2571P05H000R	5	......42	.396	.377
678031	2571P06H000R	6	......59	.548	.506
678049	2571P07H000R	7	......74	.70	.69
678057	2571P08H000R	8	......68	.60	.523
678065	2571P09H000R	9	......88	.81	.74
678073	2571P10H000R	10	......81	.75	.72
678081	2571P11H000R	11	......95	.90	.88
678090	2571P12H000R	12	......84	.79	.77

### Receptacle, Bottom Entry

Part No.	Cross Ref. No.	Pos.	1	10	25
676553	2405S02R000	2	...\$.29	\$.249	\$.224
676561	2405S03R000	3	.....33	.264	.217
676570	2405S04R000	4	.....49	.432	.381
676588	2405S05R000	5	.....69	.62	.466
676596	2405S06R000	6	.....70	.62	.498
676609	2405S07R000	7	.....80	.71	.66
676617	2405S08R000	8	.....82	.75	.60
676625	2405S09R000	9	.....88	.82	.69
676633	2405S10R000	10	..1.11	.91	.78
676641	2405S11R000	11	..1.14	1.05	.86
676650	2405S12R000	12	..1.38	1.29	1.07

### Receptacle, Top Entry with Hooks

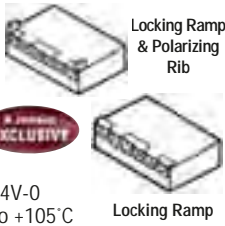
Part No.	Cross Ref. No.	Pos.	1	10	25
676668	2405S02V000R	2	.....\$ .20	\$.175	\$.166
676676	2405S03V000R	3	......33	.291	.276
676684	2405S04V000R	4	......41	.357	.326
676692	2405S05V000R	5	......44	.398	.368
676705	2405S06V000R	6	......61	.498	.493
676713	2405S07V000R	7	......71	.69	.63
676721	2405S08V000R	8	......78	.70	.65
676730	2405S09V000R	9	......70	.63	.61
676764	2405S10V000R	10	......94	.76	.69
676772	2405S11V000R	11	...1.09	1.00	.91
676781	2405S12V000R	12	...1.22	1.14	1.00

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## .100" (2.54mm) Pitch Crimp Terminal Housing

- Current rating: 3A DC
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/minute
- Housing: nylon 6/6, UL94V-0
- Operating temp.: -40°C to +105°C



### With Locking Ramp and Polarizing Rib

Part No.	Cross Ref. No.	Pos.	1	10	25
675850	22-01-3027R	2	.20	.137	.111
675868	22-01-3037R	3	.23	.191	.168
675876	22-01-3047R	4	.20	.111	.105
675884	22-01-3057R	5	.33	.283	.267
675892	22-01-3067R	6	.38	.324	.313
675905	22-01-3077R	7	.33	.306	.283
675913	22-01-3087R	8	.49	.424	.412
675921	22-01-3097R	9	.44	.404	.372
675930	22-01-3107R	10	.41	.376	.347
675948	22-01-3117R	11	.62	.548	.527
675956	22-01-3127R	12	.56	.518	.477

### With Locking Ramp

Part No.	Cross Ref. No.	Pos.	1	10	25
676174	22-01-2027R	2	.20	.117	.093
676182	22-01-2037R	3	.21	.183	.151
676191	22-01-2047R	4	.25	.216	.196
676203	22-01-2057R	5	.34	.222	.212
676211	22-01-2067R	6	.24	.18	.168
676220	22-01-2077R	7	.39	.332	.297
676238	22-01-2087R	8	.26	.24	.228
676246	22-01-2097R	9	.47	.407	.363
676254	22-01-2107R	10	.58	.513	.449
676262	22-01-2117R	11	.56	.49	.435
676271	22-01-2127R	12	.68	.60	.56

### Crimp Terminals

- Current rating: 4A
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 50k MΩ min.
- Withstanding voltage: 1,500VAC/minute
- Contact material: phosphor bronze
- Wire accommodation: 22-30 AWG
- Insulation range: 1.58mm (0.062") diameter max.



Part No.	Cross Ref. No.	Plating	1	10	25
676852	08-52-0123R	Tin	.20	.048	.044
676895	08-65-0816R	Gold	.20	.111	.109

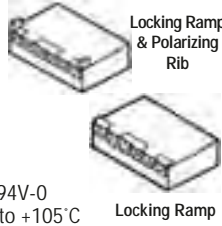
### Polarizing Key

- Plastic
- Polyester, UL94V-0, Natural

Part No.	Cross Ref. No.	1	10	25
676908	15-04-9209R	.20	.047	.044

## .100" (2.54mm) Pitch Crimp Terminal Housing

- Current rating: 3A DC
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/minute
- Housing: nylon 6/6, UL94V-0
- Operating temp.: -40°C to +105°C



### With Locking Ramp and Polarizing Rib

Part No.	Cross Ref. No.	Pos.	1	10	25
688554	2530S020000R	2	.20	.137	.11
688562	2530S030000R	3	.23	.191	.168
688571	2530S040000R	4	.20	.111	.105
688600	2530S050000R	5	.33	.283	.267
688618	2530S060000R	6	.38	.324	.313
688626	2530S070000R	7	.33	.306	.283
688642	2530S080000R	8	.49	.424	.412
688651	2530S090000R	9	.44	.404	.372
688669	2530S100000R	10	.41	.376	.347
688677	2530S110000R	11	.62	.548	.527
688685	2530S120000R	12	.56	.517	.477

### With Locking Ramp

Part No.	Cross Ref. No.	Pos.	1	10	25
688802	2530S020N00R	2	.20	.117	.093
688811	2530S030N00R	3	.21	.183	.161
688829	2530S040N00R	4	.25	.216	.196
688837	2530S050N00R	5	.34	.222	.212
688845	2530S060N00R	6	.21	.18	.168
688853	2530S070N00R	7	.38	.327	.29
688861	2530S080N00R	8	.26	.24	.234
688870	2530S090N00R	9	.47	.407	.363
688888	2530S100N00R	10	.52	.449	.444
688896	2530S110N00R	11	.56	.49	.435
688909	2530S120N00R	12	.60	.523	.465

### Crimp Terminals

- Current rating: 4A
- Voltage rating: 250VAC
- Contact resistance: 20mΩ initial
- Insulation resistance: 50k MΩ min.
- Withstanding voltage: 1,500VAC/minute
- Contact material: phosphor bronze
- Wire accommodation: 22-30 AWG
- Insulation range: 1.58mm (0.062") diameter max.



Part No.	Cross Ref. No.	Plating	1	10	25
689274	2533TPB00A0R	Tin	.20	.048	.044
689291	2533TPBU0A0R	Gold	.20	.111	.109

### Polarizing Key

- Plastic
- Polyester, UL94V-0, Natural

Part No.	Cross Ref. No.	1	10	25
689258	6001-PK0005R	.20	.047	.044

## KK® Series .100" (2.54mm) Pitch Crimp Terminal Housing

### High Pressure

- Voltage: 250V
- Current: 2.5A
- Contact resistance: 20mΩ max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: white nylon, UL04V-0



Part No.	Product No.	Positions	1	10	100
516218	10-11-2023R	2	.20	.106	.065
516226	10-11-2033R	3	.24	.106	.101
516234	10-11-2043R	4	.25	.15	.12
516242	10-11-2053R	5	.32	.297	.205
516251	10-11-2063R	6	.24	.222	.212
516277	10-11-2083R	8	.36	.336	.30
516314	10-11-2123R	12	.54	.418	.40

### Crimp Terminal

- Female
- 22 to 30 AWG
- Tin plating
- Prepackaged: please order in increments of 10



Part No.	Product No.	10	100
736456	08-50-0005	.135	.122

## C-Grid™ .100" (2.54mm) Pitch Breakaway Headers

- Voltage: 250V
- Current: 3A
- Height: .220"
- Contact resistance: 15mΩ max.
- Contacts: phosphor bronze
- Dielectric w/standing voltage: 1500V
- Insulation resistance: 1000MΩ min.



### Dual Row, Vertical, High Temperature

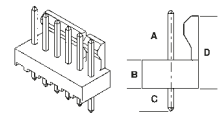
Part No.	Cross Ref.	Positions	1	10	100
514600	10-89-7042R	4	.29	.251	.224
514466	10-89-7102	10	.65	.57	.421
514503	10-89-7142R	14	.92	.82	.59
514546	10-89-7202R	20	1.38	1.21	.87

### High Profile .220"H, Dual Row, Right Angle

Part No.	Product No.	Positions	1	10	100
514001	10-89-4406	40	\$6.05	\$5.72	\$5.45

## KK® Series .100" (2.54mm) Male Headers

- Voltage: 250V
- Current: 4.0A
- Contact resistance: 20mΩ max.
- Housing: nylon, UL94V-0
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 50,000MΩ min.
- Contact: brass, 0 - 6.4mm (0.25") square
- Durability: 100 cycles max.



### Straight Friction Lock Headers (Gold)

Part No.	Product No.	Positions	1	10	100
233584	22-11-2022R	2	.54	.46	.29
233592	22-11-2032R	3	.85	.74	.47
233605	22-11-2042R	4	.87	.76	.49
233613	22-11-2052R	5	1.00	.95	.73
233621	22-11-2062R	6	1.34	1.17	.76
233656	22-11-2102R	10	1.59	1.51	1.44

For more Molex Headers visit [www.Jameco.com](http://www.Jameco.com)

## .100" (2.54mm) IDC Headers

- Housing: UL94V-0 rated, polyester, natural color

Quantity SAVE

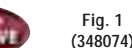


### Friction Lock Headers

- Posts: copper alloy, gold over nickel plated

### Straight Post - Gold Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348058	641215-2	1	2	.37	.304	.276
348066	641215-3	1	3	.29	.245	.21
348074	641215-4	1	4	.52	.442	.332



### Right Angle Post - Gold Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348242	641216-3	2	3	.63	.528	.414
348251	641216-4	2	4	1.14	.98	.74
348277	641216-6	2	6	1.50	1.28	.96

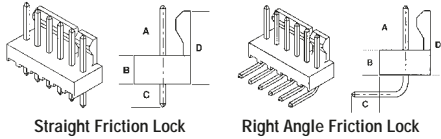


\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## **KK® Series .100" (2.54mm) Male Headers (Continued)**

- Durability: 25 cycles max.



### **Straight Friction Lock Headers (Tin)**

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266	22-23-2021	2	.....\$ .29	.....\$ .23	.....\$ .15
232274	22-23-2031	3	.....\$ .35	.....\$ .30	.....\$ .19
232282	22-23-2041	4	.....\$ .42	.....\$ .36	.....\$ .23
232291	22-23-2051	5	.....\$ .49	.....\$ .432	.....\$ .291
232303	22-23-2061	6	.....\$ .55	.....\$ .48	.....\$ .31
232311	22-23-2071	7	.....\$ .63	.....\$ .55	.....\$ .36
232320	22-23-2081	8	.....\$ .72	.....\$ .63	.....\$ .41
232338	22-23-2091	9	.....\$ .69	.....\$ .59	.....\$ .434
232346	22-23-2101	10	.....\$ .81	.....\$ .71	.....\$ .471
232354	22-23-2121	12	.....\$ .95	.....\$ .83	.....\$ .55

### **Right Angle Friction Lock Headers (Tin)**

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233437	22-05-3021	2	.....\$ .42	.....\$ .36	.....\$ .22
233445	22-05-3031	3	.....\$ .56	.....\$ .49	.....\$ .30
233453	22-05-3041	4	.....\$ .71	.....\$ .61	.....\$ .39
233461	22-05-3051	5	.....\$ .77	.....\$ .65	.....\$ .49
233470	22-05-3061	6	.....\$ .85	.....\$ .74	.....\$ .48
233496	22-05-3081	8	.....\$ 1.03	.....\$ .83	.....\$ .58
233517	22-05-3121	12	.....\$ 1.19	.....\$ .99	.....\$ .69

## **KK® Series .100" (2.54mm) Female Housing & Crimp Terminals**

- Voltage: 250V
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage.: 1500VAC
- Insulation resistance: 50k MΩ



### **Housing with Locking Ramp**

Part No.	Product No.	Positions	1	10	100
234704	22-01-2027	2	.....\$ .29	.....\$ .15	.....\$ .09
234712	22-01-2037	3	.....\$ .29	.....\$ .20	.....\$ .12
234721	22-01-2047	4	.....\$ .29	.....\$ .24	.....\$ .15
234739	22-01-2057	5	.....\$ .33	.....\$ .28	.....\$ .17
234747	22-01-2067	6	.....\$ .36	.....\$ .32	.....\$ .20
234755	22-01-2087	8	.....\$ .47	.....\$ .41	.....\$ .26
234771	22-01-2107	10	.....\$ .61	.....\$ .53	.....\$ .353

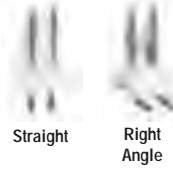
### **Crimp Terminals**

- Current: phosphor bronze – 4.0A max., brass – 2.5A max.
- Accommodates 22 to 30 AWG
- Insulation range: 0.062" (1.58mm) diameter max.
- Prepackaged: please order in increments of 10

Part No.	Product No.	Description	10	100	1000
736501	08-50-0113	Brass with tin plating (pre-plated)	.....\$ .088	.....\$ .078	.....\$ .069
234923	08-50-0114	Brass with tin plating	.....\$ .065	.....\$ .048	.....\$ .029
234931	08-55-0102	Brass with 15µ" select gold plating	.....\$ .22	.....\$ .17	.....\$ .11
736595	08-52-0123	Phosphor bronze with tin plating	.....\$ .088	.....\$ .078	.....\$ .069
462969	08-65-0805	Phosphor bronze with tin plating, cat ear	.....\$ .10	.....\$ .09	.....\$ .08
463005	08-65-0816	Phosphor bronze with 15µ" select gold plating	.....\$ .147	.....\$ .14	.....\$ .133

## **MTA-100 (.100") Solid Headers**

- 0.025" square posts
- Tin-plated
- Housing: nylon UL94V-0 rated, white polyester
- Posts: copper alloy, tin plated



### **Straight Friction Lock**

Part No.	Product No.	Positions	1	10	100
613931	640456-2	2	.....\$ .20	.....\$ .059	.....\$ .049
613940	640456-3	3	.....\$ .20	.....\$ .079	.....\$ .075
613958	640456-4	4	.....\$ .20	.....\$ .105	.....\$ .099
613966	640456-5	5	.....\$ .20	.....\$ .115	.....\$ .109
613974	640456-6	6	.....\$ .20	.....\$ .131	.....\$ .115

### **Right Angle Friction Lock**

Part No.	Product No.	Positions	1	10	100
524859	640457-2	2	.....\$ .20	.....\$ .10	.....\$ .08

## **Manual Pistol Hand Grip Tool**

- For use with MTA connectors



Part No.	Product No.	1	10
526635	58074-1	.....\$57.09	.....\$53.45

## **T-Handle Tool**

- For .100" (2.54mm) IDC connectors



Part No.	Product No.	Description	Price
365974	59803-1	.100" hand tool	.....\$20.89

## **MTA-100 (.100") IDC Connectors**

- Voltage rating: 250VAC
- Low-level resistance: 6mΩ max. initial
- Dielectric withstand: 750VAC/1 min.
- Insulation resistance: 50kMΩ min.
- Contacts: phosphor bronze, tin-plated
- Current rating: 5A

**Lower \$\$\$**

\* Prepackaged: please order in increments of 10



### **Closed-End Style**

#### **Without Polarizing Tabs w/ Locking Ramp**



Part No.	Product No.	Pos.	AWG	Color	1	10
750830	3-640440-2	2	22	Red	.....\$ .099	.....\$ .118
524701	640440-3	3	22	Red	.....\$ .115	.....\$ .182
750848	3-640440-3	3	22	Red	.....\$ .115	.....\$ .155
524710	640440-4	4	22	Red	.....\$ .22	.....\$ .204
841598	3-640440-4	4	22	Red	.....\$ .155	.....\$ .204
524728	640440-5	5	22	Red	.....\$ .22	.....\$ .204
750856	3-640440-5	5	22	Red	.....\$ .204	.....\$ .22
750864	3-640440-6	6	22	Red	.....\$ .22	.....\$ .24
750872	3-640440-7	7	22	Red	.....\$ .24	.....\$ .265
750881	3-640440-8	8	22	Red	.....\$ .29	.....\$ .447
854591	640440-9	9	22	Red	.....\$ .54	.....\$ .45
524681	1-640440-2	12	22	Red	.....\$ .49	.....\$ .59
944562	4-640440-2	12	22	Red	.....\$ .59	.....\$ .75
890672	1-640440-3	13	22	Red	.....\$ .75	.....\$ 1.09
741811	1-640440-4	14	22	Red	.....\$ 1.19	.....\$ 1.15
741829	1-640440-5	15	22	Red	.....\$ 1.29	.....\$ 1.43
741837	1-640440-6	16	22	Red	.....\$ 1.55	.....\$ .11
524761	640441-2	2	24	White	.....\$ .11	.....\$ .097
750899	3-640441-2	2	24	White	.....\$ .097	.....\$ .113
524779	640441-3	3	24	White	.....\$ .113	.....\$ .107
922814	3-640441-3	3	24	White	.....\$ .107	.....\$ .107
750901	3-640441-4	4	24	White	.....\$ .107	.....\$ .184
750910	3-640441-5	5	24	White	.....\$ .184	.....\$ .213
524808	640441-6	6	24	White	.....\$ .213	.....\$ .252
750928	3-640441-6	6	24	White	.....\$ .252	.....\$ .329
755930	640441-7	7	24	White	.....\$ .329	.....\$ .95
750936	3-640441-7	7	24	White	.....\$ .95	.....\$ .359
922849	3-640441-8	8	24	White	.....\$ .359	.....\$ .34
965216	640441-9	9	24	White	.....\$ .34	.....\$ .501
741845	1-640441-0	10	24	White	.....\$ .501	.....\$ .57
944600	4-640441-0	10	24	White	.....\$ .57	.....\$ .11
741853	1-640441-2	12	24	White	.....\$ .11	.....\$ .107
944642	4-640441-2	12	24	White	.....\$ .107	.....\$ .20
944685	4-640441-5	15	24	White	.....\$ .20	.....\$ .116
524824	640442-2	2	26	Blue	.....\$ .116	.....\$ .107
750944	3-640442-2	2	26	Blue	.....\$ .107	.....\$ .15
854621	640442-3	3	26	Blue	.....\$ .15	.....\$ .281
750952	3-640442-3	3	26	Blue	.....\$ .281	.....\$ .204
524832	640442-4	4	26	Blue	.....\$ .204	.....\$ .213
750961	3-640442-4	4	26	Blue	.....\$ .213	.....\$ .213
854647	640442-5	5	26	Blue	.....\$ .213	.....\$ .213
922873	3-640442-5	5	26	Blue	.....\$ .213	.....\$ .213
854671	640442-6	6	26	Blue	.....\$ .213	.....\$ .213
922902	3-640442-6	6	26	Blue	.....\$ .213	.....\$ .213
922945	3-640442-7	7	26	Blue	.....\$ .213	.....\$ .213
854701	640442-8	8	26	Blue	.....\$ .213	.....\$ .213
922961	3-640442-8	8	26	Blue	.....\$ .213	.....\$ .213
741861	1-640442-0	10	26	Blue	.....\$ .213	.....\$ .213
944722	4-640442-2	12	26	Blue	.....\$ .213	.....\$ .213

\* Please call or visit our website for minimum order quantity and pricing

**MTA-100 Connectors continued on next page**

For more Molex Housing and Crimp Terminals visit [www.Jameco.com](http://www.Jameco.com)

These products ship from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## AMP

## MTA-100 (.100") IDC Connectors (Continued)

- Voltage rating: 250VAC
- Low-level resistance: 6mΩ max. initial
- Insulation resistance: 50kMΩ min.
- \* Prepackaged: please order in increments of 10

- Current rating: 5A
- Dielectric withstand: 750VAC/1 min.
- Contacts: phosphor bronze, tin-plated
- (See photos on previous page)

## Closed-End Style

## With Polarizing Tabs &amp; Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	10
858082	643813-2♣	2	22	Red .....	*	\$ .126
751138	3-643813-2♣	2	22	Red .....	★	Call
751146	3-643813-3♣	3	22	Red .....	*	.107
858111	643813-4♣	4	22	Red .....	*	.155
751154	3-643813-4♣	4	22	Red .....	★	Call
751162	3-643813-5♣	5	22	Red .....	*	.184
858146	643813-6	6	22	Red .....	.36	.288
858171	643813-7♣	7	22	Red .....	*	.28
751189	3-643813-8♣	8	22	Red .....	*	.262
742194	1-643813-0♣	10	22	Red .....	*	.359
944802	4-643813-0♣	10	22	Red .....	*	.33
890841	1-643813-2♣	12	22	Red .....	*	.55
944845	4-643813-2♣	12	22	Red .....	★	Call
890875	1-643813-4♣	14	22	Red .....	2.55	2.14
742207	1-643813-6♣	16	22	Red .....	2.65	2.22
756465	643814-2♣	2	24	White .....	★	Call
923366	3-643814-2♣	2	24	White .....	★	Call
858200	643814-3♣	3	24	White .....	*	.116
751197	3-643814-3♣	3	24	White .....	*	.107
858251	643814-4♣	4	24	White .....	*	.155
923382	3-643814-4♣	4	24	White .....	★	Call
751200	3-643814-5♣	5	24	White .....	★	Call
923403	3-643814-6♣	6	24	White .....	★	Call
923420	3-643814-7♣	7	24	White .....	★	Call
756473	643814-8♣	8	24	White .....	*	.262
923446	3-643814-8♣	8	24	White .....	★	Call
746347	1-643814-0♣	10	24	White .....	*	.359
944870	4-643814-0♣	10	24	White .....	★	Call
890947	1-643814-2♣	12	24	White .....	★	Call
944917	4-643814-2♣	12	24	White .....	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

## Closed-End Style (Continued)

## With Polarizing Tabs &amp; Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	10
858349	643815-2♣	2	26	Blue .....	*	\$ .102
751218	3-643815-2♣	2	26	Blue .....	★	Call
923462	3-643815-3♣	3	26	Blue .....	*	.12
756481	643815-4♣	4	26	Blue .....	*	.155
858373	643815-5♣	5	26	Blue .....	*	.204
923489	3-643815-5♣	5	26	Blue .....	★	Call
858402	643815-6♣	6	26	Blue .....	*	.213
923500	3-643815-6♣	6	26	Blue .....	★	Call
923526	3-643815-7♣	7	26	Blue .....	★	Call
923542	3-643815-8♣	8	26	Blue .....	★	Call
944950	4-643815-0♣	10	26	Blue .....	★	Call
923569	3-643816-2♣	2	28	Green .....	★	Call
756537	643816-4♣	4	28	Green .....	*	.155
756553	643816-6♣	6	28	Green .....	★	Call

## Feed-Thru Style

## Without Polarizing Tabs w/ Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	10
756027	640620-3♣	3	22	Red .....	*	\$ .146
923163	3-640620-3♣	3	22	Red .....	★	Call
923180	3-640620-4♣	4	22	Red .....	★	Call
855789	640620-5♣	5	22	Red .....	*	.204
756035	640620-6♣	6	22	Red .....	*	.213
923201	3-640620-6♣	6	22	Red .....	★	Call
923227	3-640620-8♣	8	22	Red .....	★	Call
923243	3-640621-3♣	3	24	White .....	★	Call

## With Polarizing Tabs &amp; Locking Ramp

Part No.	Product No.	Pos.	AWG	Color	1	10
756799	644540-8♣	8	22	Red .....	★	Call

★ Please call or visit our website for minimum order quantity and pricing.

## .118" (3.0mm) Pitch Micro-Fit 3.0™ SMT Connectors

- Solderable fitting nail provides retention to PCB
- Contact resistance: 10mΩ max. • Voltage: 250V
- Dielectric withstanding voltage: 1500VAC
- Fully polarized to mating receptacle
- Insulation resistance: 1000MΩ min.
- Housing: high temperature LCP, UL94V-0

- Contact: brass • Current: 5.0A max.

Single Row,  
Right AngleDual Row,  
Right AngleDual Row,  
VerticalCrimp  
Terminal

## Single Row, Right Angle, Tin

Part No.	Product No.	Pos.	1	10	100
338423	43650-0212♣	2	..... \$2.39	\$2.24	\$1.85
338458	43650-0312	3	..... 2.82	2.73	1.92
338482	43650-0412	4	..... 3.25	2.84	2.38
338511	43650-0512♣	5	..... 3.30	3.03	2.26
338546	43650-0612♣	6	..... 3.83	3.46	2.42

## Single Row, Right Angle, Gold

Part No.	Product No.	Pos.	1	10	100
338415	43650-0210♣	2	..... \$2.25	\$2.03	\$1.81
338440	43650-0310♣	3	..... 3.18	2.82	2.13
338474	43650-0410♣	4	..... 3.54	3.47	2.36
338503	43650-0510♣	5	..... 3.78	3.47	2.56
338538	43650-0610♣	6	..... 3.59	3.41	3.24

## Dual Row, Right Angle, Tin

Part No.	Product No.	Pos.	1	10	100
337906	43045-0209♣	2	..... \$2.29	\$2.01	\$1.76
337981	43045-0409♣	4	..... 2.75	2.44	2.13
338061	43045-0609♣	6	..... 3.19	2.83	2.47

## Dual Row, Right Angle, 30μ" Gold

Part No.	Product No.	Pos.	1	10	100
337914	43045-0211♣	2	..... \$2.95	\$2.71	\$2.47
337990	43045-0411♣	4	..... 3.55	3.32	2.61
338124	43045-0811	8	..... 3.69	3.32	3.12

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

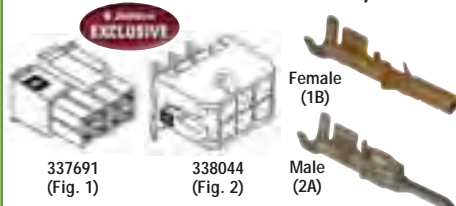
♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

.118" (3.0mm) Dual Row  
Micro-Fit Connectors

## Molex Micro-Fit 3.0™ Series Value Equivalents



## Dual Row Crimp Housing

- Fully isolated contacts
- Housing: UL94V-0
- Voltage/current rating: 250V @ 5.0A (max.)
- Mates with 43020 and 43045 series
- Contact resistance: 10mΩ (max.)
- Contacts: tin or 30μ" gold plating over phosphor bronze
- Wire to wire
- Fully polarized
- Black

Quantity SAVE

## Receptacles (Fig. 1)

Part No.	Cross Ref. No.	Positions	1	10	100
337674	43025-0400♣	4	..... \$ .25	\$ .225	\$ .184
337682	43025-0600♣	6	..... .20	.17	.128
337691	43025-0800♣	8	..... .22	.21	.174

## Dual Row PCB Headers

- Surface mount compatible with PCB polarizing pegs
- Fully polarized to mating receptacle
- Black

## Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 2)

Part No.	Cross Ref. No.	Positions	1	10	100
338554	43045-0800♣	8	..... \$ .84	\$ .72	\$ .54
338212	43045-1200♣	12	..... .89	.84	.77
338571	43045-1400♣	14	..... 1.09	.99	.92

## Female &amp; Male Contacts

Type\*: 1: female 2: male

A: tin plating over phosphor bronze

B: 30μ" select gold over nickel over phosphor bronze

- Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	AWG	Type*	10	100
337720	43030-0007♣	20-24	1A	..... \$ .091	\$ .075
337738	43030-0009♣	20-24	1B	..... .108	.105
337762	43031-0007♣	20-24	2A	..... .103	.093



## Extraction Tool

For Micro-Fit  
Connectors

- Length: 3.0"

Part No.	Cross Ref. No.	1	5
338669	11-03-0043♣	..... \$13.45	\$12.49



## Crimp Tool

For Micro-Fit  
Connectors

- Length: 8.25"

Part No.	Cross Ref. No.	1	5	10
338678	HT-225D♣	..... \$26.99	\$24.83	\$21.59

www.Jameco.com

More Connectors available on our  
website. Visit us online today!

## JAMECO ValuePro .156" Center Housing Connectors & Crimp Contact

- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 178-179)
- Current rating: 10A AC/DC
- Voltage rating: 250V AC/DC

227416: 18-22 AWG

- Material: brass
- Finish: tin-plated



Part No.	Description	1	10	100	1000
215950	5 pos. housing	\$ .35	\$ .31	\$ .25	\$ .187
227416	Crimp contact	.32	.29	.26	.22

## JAMECO ValuePro .156" (3.96mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 175-179) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use w/ crimp pins, 78319, below

**Quantity SAVE**

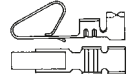


\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	Pins	1	10	100	1000
104433	LCH3	3	.....	* .19	.12	.11
104716	LCH4	4	.....	.25	.22	.15
104723	LCH5	5	.....	.27	.238	.17
104731	LCH6	6	.....	.33	.30	.24
104766	LCH10	10	.....	.60	.523	.329

## .156" (3.96mm) Center Crimp Pin

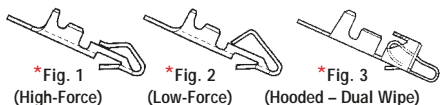
- Pin wire gauge: 18-24 AWG
- Material: brass/tin plated
- Use with .156 housings (above)
- Prepackaged: please order in increments of 10



Part No.	Cross Ref. No.	10	100	1000
78319	JS-5001-T	\$ .11	\$ .08	\$ .07

## AMP .156" Crimp Contacts

- Voltage rating: 250VAC • Current rating: 10A max.
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
  - \*A: brass, 0.012" bright tin plated
  - \*B: brass, 0.012" pre-tin plated
  - \*C: brass, 0.00030" gold over nickel plated
  - \*D: phosphor bronze, 0.012" bright tin plated
  - \*E: phosphor bronze, 0.0003" gold over nickel plated
- For use with .156" AMP housings (see web)



\* Prepackaged: please order in increments of 10

Part No.	Product No.	Desc.*	AWG	10	100	500
248866	640706-1	1A	18-24	\$ .18	\$ .165	\$ .152
248874	640706-2	1B	18-24	.....	.168	.14
248882	640707-1	2A	18-24	.....	.186	.167
248891	770258-1	2C	18-24	.....	.35	.29
248903	770522-1	3D	18-24	.....	.19	.138

Find more products online at  
[www.Jameco.com](http://www.Jameco.com)

⚡ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

## molex KK® Series .156" (3.96mm) Pitch Crimp Terminal Housings

- Voltage: 250VAC • Housing: nylon, UL94V-2
- Dielectric withstanding voltage: 1500VAC
- With Locking Ramp (KK Series 2139)**
  - Current: brass – 5A max.; phosphor bronze – 7A max.;
  - Contact resistance: 6mΩ max.
  - Insulation resistance: 50k MΩ min.



Part No.	Product No.	Positions	1	10	100
463427	09-50-3021	2	.....	\$ .20	\$ .096
463435	09-50-3031	3	.....	.20	.13
463443	09-50-3041	4	.....	.25	.173
463460	09-50-3061	6	.....	.31	.295
463486	09-50-3081	8	.....	.40	.275
463507	09-50-3101	10	.....	.26	.243
463523	09-50-3121	12	.....	.61	.495

## With Locking Ramp (KK Series 3069)

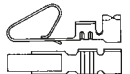
- Current: 7A • Wire-to-board
- Contact resistance: 20mΩ max.
- Insulation resistance: 500kMΩ min.



Part No.	Product No.	Positions	1	10	100
520057	09-91-0400	4	.....	\$ .51	\$ .488
520209	09-91-2000	20	.....	.94	.89

## Crimp Terminals

- Female • 18 to 24 AWG
- .110" max. wire insulation
- For 2139 & 3069 Series (above)
- Prepackaged: please order in increments of 5



Part No.	Product No.	10	100
736472	08-50-0105 (brass/tin)	\$ .14	\$ .13
736481	08-50-0106 (brass/tin)	.....	.058
736552	08-52-0071 (phos. bronze/tin)	.....	.037

## molex KK® Series .156" (3.96mm) Pitch PCB Connectors

### Bottom Entry

- Housing: nylon, UL94V-2
- Current: 5A • Voltage: 250VAC
- Dielectric withstanding voltage: 1500VAC
- Contact/Insulation resistance: 6mΩ max./50k MΩ min.
- Contacts: brass or phosphor bronze w/ tin-lead plating
- \* Prepackaged: please order in increments of 10



Part No.	Product No.	Positions	1	10	100
481588	09-52-3042	4	.....	* .386	\$ .367
481609	09-52-3062	6	.....	.91	.86

## molex KK® Series .156" (3.96mm) Crimp Terminal

### Trifurcon Terminal

- Brass with tin plating (cat ear)
- Prepackaged: please order in increments of 10



Part No.	Product No.	Description	10	100
462774	08-50-0165	18-20 AWG (bag)	... \$ .105	\$ .095

## molex SPOX™ .156" (3.96mm) Pitch Header

### Right Angle, Friction Lock

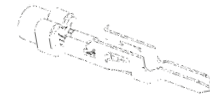
- Current: 7A • Voltage: 250V
- Housing: 6/6 nylon, UL94V-2
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Dielectric withstanding voltage: 1500VAC/1 min.
- Contacts: brass w/ tin plating, 0.045" square posts



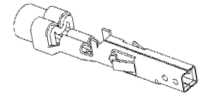
Part No.	Product No.	Positions	1	10	100
519881	09-75-2024	2	.....	\$ .26	\$ .253

## molex .165" (4.2mm) Mini-Fit Jr.™ Contacts

- Voltage: 600V
- Current: 9A (112A current rating)
- Dielectric withstanding voltage: 1500V
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Material:
  - \*A: Brass (pre-plated tin over copper)
  - \*B: Brass or copper (post-plated tin over nickel)
  - \*C: Brass (post-plated tin over nickel)
  - \*D: Phosphor bronze (pre-plated gold over nickel)



\* Fig. 1 (Male)



\* Fig. 2 (Female)

## Male Contacts

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Desc.*	AWG	1	10	100
304725	39-00-0041	1A	18-24	.....	* .068	\$ .057

• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307985	39-00-0040	1A	18-24	..... \$108.00

## Female Contacts

Part No.	Product No.	Desc.*	AWG	1	10	100
304733	39-00-0039	2A	18-24	.....	* .077	\$ .071
304750	39-00-0182	2D	18-24	.....	.82	.69
884248	44476-111	2B	18-24	.....	* .216	.194
304776	44476-1112	2B	18-24	.....	* .163	.147
304813	39-00-0164	2C	18-24	.....	.52	.468
304872	39-00-0047	2A	22-28	.....	.20	.14

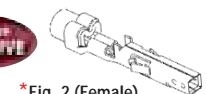
• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307993	39-00-0038	2A	18-24	..... \$140.00

## JAMECO ValuePro .165" (4.2mm) Mini-Fit Jr.™ Equivalent Contacts



\* Fig. 1 (Male)



\* Fig. 2 (Female)

• Type\*:

- A: Tin over nickel over brass
- B: 15μ gold over nickel over brass
- C: 30μ gold over nickel over brass
- D: Tin over nickel over phosphor bronze
- E: 15μ gold over nickel over phosphor bronze
- F: 30μ gold over nickel over phosphor bronze

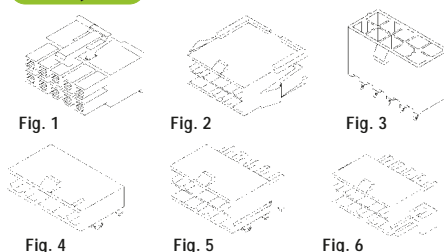
**Quantity SAVE**

\* Prepackaged: please order in increments of 10

Part No.	Cross Ref. No.	AWG	Type*	1	10	100
365747	39-00-0054	18-24	1C	.....	\$ .58	\$ .428
401859	39-00-0076	18-24	1B	.....	.35	.276
401824	39-00-0121	18-24	1A	.....	* .068	.053
365835	39-00-0168	16	2C	.....	.44	.368
401736	39-00-0170	18-24	2B	.....	.29	.261
365851	39-00-0182	18-24	2F	.....	.46	.388
365827	39-00-0186	16	2F	.....	.46	.358
401701	39-00-0208	18-24	2A	.....	* .068	.057
401699	39-00-0210	22-28	2A	.....	* .058	.042
401710	39-00-0212	16	2A	.....	* .133	.125
401761	39-00-0214	18-24	2A	.....	* .077	.056
401779	39-00-0218	16	2D	.....	* .132	.125

More Contacts at [www.Jameco.com/Prod/Contacts](http://www.Jameco.com/Prod/Contacts)

## .165" (4.2mm) Connectors – Molex Mini-Fit Jr.™ Value Equivalents



- Low profile design to accommodate height constraints
- Fully isolated terminals to protect contacts from damage
- Positive locking housings
- Contact resistance: 10mΩ
- Temperature: -40°C to +150°C
- Housing: 6/6 Nylon Natural
- UL rating: 94V-2
- Pitch: 0.165" (4.2mm)
- Current: up to 9A
- Voltage: 600V

### Molex 5557 Series — Connector Equivalents Receptacles, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364736	39-01-2020	1	2 ...	\$ .27	\$ .245	\$ .191
364744	39-01-2040	1	4 ....	\$ .24	\$ .212	\$ .143
364752	39-01-2060	1	6 ....	\$ .41	\$ .382	\$ .249
364761	39-01-2080	1	8 ....	\$ .43	\$ .366	\$ .258
364779	39-01-2100	1	10 ....	\$ .42	\$ .348	\$ .262
364787	39-01-2120	1	12 ....	\$ .61	\$ .515	\$ .386
364795	39-01-2140	1	14 ....	\$ .72	\$ .64	\$ .432
364824	29-01-2200	1	20 ....	\$ .90	\$ .77	\$ .548
364832	39-01-2220	1	22 ...	\$ 1.19	\$ 1.01	\$ .76
364841	39-01-2240	1	24 ...	\$ 1.08	\$ 1.04	\$ .61

### Molex 5559 Series — Connector Equivalents Plugs - Panel Mount w/ Ears, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364867	39-01-2041	2	4 ...	\$ .40	\$ .375	\$ .249

### Molex 5566 Series PCB Header Equivalents Vertical Dual Row w/o Pegs & Drain Holes – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
364963	39-28-1083	3	8 ...	\$ 1.28	\$ 1.07	\$ .76
364971	39-28-1103	3	10 ....	\$ 1.69	\$ 1.49	\$ 1.10
365042	39-28-1243	3	24 ....	\$ 3.45	\$ 2.90	\$ 2.39

### Vertical Dual Row w/o Pegs & Drain Holes – Gold

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365085	39-29-0103	4	8 ...	\$ 2.19	\$ 2.15	\$ 1.61

### Molex 5569 Series PCB Header Equivalents Right Angle Dual Row w/ Pegs – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365173	39-30-1020	5	2 ...	\$ .57	\$ .54	\$ .438
365181	39-30-1040	5	4 ...	\$ .66	\$ .57	\$ .422
365190	39-30-1060	5	6 ...	\$ .83	\$ .63	\$ .468
365202	39-30-1080	5	8 ...	\$ .88	\$ .65	\$ .432
365211	39-30-1100	5	10 ...	\$ 1.05	\$ .80	\$ .54
365229	39-30-1120	5	12 ...	\$ 1.43	\$ 1.10	\$ .75
365288	39-30-1240	5	24 ...	\$ 2.25	\$ 2.09	\$ 1.70

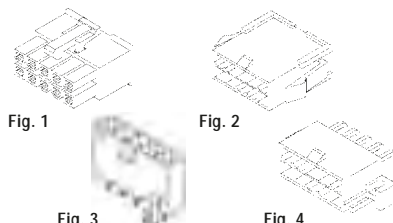
### Right Angle Dual Row w/ Flanges – Tin

Part No.	Cross Ref. No.	Fig.	Pos.	1	10	100
365464	39-29-1068	6	6 ...	\$ .70	\$ .60	\$ .399
365552	39-29-1248	6	24 ...	\$ 2.39	\$ 2.24	\$ 1.67



## .165" (4.2mm) Mini-Fit Jr.™ Connectors

- Fully isolated terminals to protect contacts from damage
- Use with strain relief or overmold applications
- Positive housing lock for secure mating retention
- 881021/881119: UL 94V-0 rated



### Single and Double Row Headers

- Voltage: 600V
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

### Vertical Headers w/ Pegs – Tin Plated

Part No.	Product No.	Fig.	Pos.	1	10	100
882437	39-30-2050	3	5 ...	\$ .99	\$ .89	\$ .75

### Right Angle Headers w/ Flange – Gold Plated, 30μ"

Part No.	Product No.	Fig.	Pos.	1	10	100
304493	39-29-5123	4	12	\$ 4.99	\$ 4.40	\$ 2.93

- UL/CSA/TUV approved
- Uses standard Mini-Fit series terminals
- Housing: 6/6 nylon natural, UL 94V-2 rated

### Double Row Receptacles

Part No.	Product No.	Fig.	Pos.	1	10	100
303562	39-01-2020	1	2 ...	\$ .34	\$ .321	\$ .214
881021	39-01-3028	1	2 ...	\$ .35	\$ .225	\$ .216
303571	39-01-2040	1	4 ...	\$ .42	\$ .366	\$ .244
881119	39-01-3048	1	4 ...	\$ .55	\$ .446	\$ .401
303589	39-01-2060	1	6 ...	\$ .47	\$ .45	\$ .351
303597	39-01-2080	1	8 ...	\$ .54	\$ .461	\$ .334
303600	39-01-2100	1	10 ...	\$ .60	\$ .534	\$ .359

\* Not for use with strain relief

### Double Row Plugs

#### Free Hanging Plugs

Part No.	Product No.	Fig.	Pos.	1	10	100
881047	39-01-3029	2	2 ...	\$ .284	\$ .265	
881004	39-01-3029	2	2 ...	\$ .158	\$ .148	

### Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Pos.	1	10	100
303685	39-01-2021	2	2 ...	\$ .32	\$ .264	\$ .193
303693	39-01-2041	2	4 ...	\$ .47	\$ .442	\$ .294
303706	39-01-2061	2	6 ...	\$ .48	\$ .47	\$ .36

## Hand Tools for Mini-Fit Jr.

- 304928: Crimp tool wire range from 14-24 AWG
- 304936: Extraction tool
- 308030: Cuts & strips 14-24 AWG wires
- 227491: Cuts & strips 18-30 AWG wires

Part No.	Product No.	1	5
304928	63811-1000	\$ 47.29	\$ 45.46
304936	11-03-0044	\$ 19.99	\$ 18.99
308030	W-HT-1919 8.3"L (Red)	\$ 14.99	\$ 13.99
227491	W-HT-1921 8.3"L (Yellow)	\$ 14.99	\$ 13.99



More Tools on pages 227 – 228

## .098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min.
- Current rating: 7A AC/DC
- Withstanding volt.: 1500V/min.

78327: AMP50G female 6-pin housing connector • Material: nylon

78319: AMP501T terminal pin • Material: tin-plated brass

\* Prepackaged: please order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
78327	6-pin housing connector	0.94"	0.25"	0.74"	—	78300	\$ .45	\$ .365	\$ .329	\$ .294
78319	Power terminal pin, F	0.69"	—	—	0.09"	78327	*	\$ .11	\$ .08	\$ .07



## .118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Withstanding volt.: 1500V/min.
- Insulation resistance: 1000MΩ min.
- Current rating: 7A AC/DC
- Temp. range: -25°C to 85°C

147379: ATX male 20-pin edge mount connector

• Material: nylon 66, UL-94V0

• Material of post: tin-plated brass

147387: Housing connector

147395: ATX power terminal pins

• Diameter of post: 0.045"

• Material: nylon 66, UL-94V0

• Material: tin-plated brass

\* Prepackaged: please order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$ .59	\$ .53	\$ .48	\$ .36
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	\$ .59	\$ .53	\$ .48	\$ .43
147395	Power terminal pin, F	0.59"	—	—	0.068"	147387	*	\$ .12	\$ .11	\$ .10

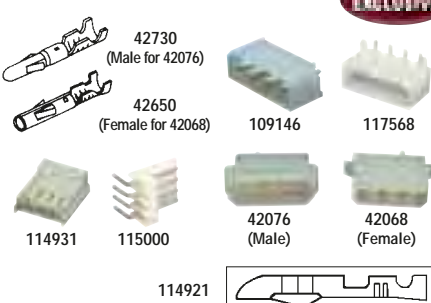
www.Jameco.com

More Connectors available online.  
Visit our website today!

**JAMECO ValuePro**

## Power Connectors and Pins

**EXCLUSIVE**



42730 (Male for 42076)  
 42650 (Female for 42068)  
 109146  
 117568  
 114931  
 115000  
 42076 (Male)  
 42068 (Female)  
 114921

### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

### Crimp Pin Specifications:

- Material: tin plated brass
- Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, right

### For 5.25" Disk Drives and Power Supplies

#### 42076 & 42068 Connector Housings:

- 0.200" pitch
- Keyed mating connectors
- External key bar indicates pin 1
- See right for extraction tools, P/Ns 131887 & 131879
- Prepackaged: please order in increments of 10

Part No.	Description	10	100	1000
109146	4-pin M vert. PCB mtg	\$ .68	\$ .61	\$ .55
117568	4-pin M PCB mtg, horiz. edge mnt	.85	.72	.65
42076	4-pin M housing	.12	.11	.10
42068	4-pin F housing	.20	.15	.13
42730	M crimp pin for 42076	.112	.078	.067
42650	F crimp pin for 42068	.10	.07	.06

### For 3.5" Disk Drives and Power Supplies

- 0.100" pitch

Part No.	Description	10	100	1000
114931	4-pin F housing	\$ .19	\$ .17	\$ .15
114921	F crimp pin for 114931	.11	.095	.08
Part No.	Description	1	100	1000
115000	4-pin M rt. angle PCB mounting	\$ .35	\$ .31	\$ .28

## HCS-125 .330" (8.38mm) Pitch Pin and Socket

- Meets the need for a connector system rated at greater than the industry standard 12A per circuit
- Enhanced version of 0.125" connectors
- Positive locks
- Fully isolated terminals
- Voltage: 600V
- Current: 20A
- Dielectric withstanding voltage: 1500VAC
- Housing: nylon UL94V-2 rated
- Accommodates wires 18-10AWG

### Receptacle Housing

Blue Part No. = Limited Quantity

Part No.	Product No.	Pos.	1	10	100
462483	03-12-1026	2	..... \$ .64	\$ .60	\$ .537
462504	03-12-1046	4	..... .90	.86	.60

### Plug Housing Panel Mount

Part No.	Product No.	Pos.	1	10	100
462555	03-12-2025	2	..... \$ .83	\$ .76	\$ .57

### Plug Housing Free Hanging

Part No.	Product No.	Pos.	1	10	100
462601	03-12-2046	4	..... \$ .90	\$ .85	\$ .59

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

**molex**

## Disk Drive Power Connection System Crimp Terminal

**NEW**

- Female
- Contact: phosphor bronze w/ tin plating • 14-20 AWG
- Wire insulation diameter: 0.08" to 0.108"
- Prepackaged: please order in increments of 5

Part No.	Product No.	5	50
734688	02-08-1201	\$ .118	\$ .108

**(H)**

## Extraction Tools for Crimp Pins

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"
- See left for crimp pins


131887

131887: Male tool for 42730  
 131879: Female tool for 42650

Part No.	Product No.	1	10
131887	HT319C	\$13.45	\$12.25
131879	HT319B	13.99	11.50

**AMP**

## AMPMODU™ Locking Clip Housings & Contact



759658 840780 840819

- Mates with 0.025" (0.64mm) square posts
- Design permits end-to-end stacking
- 94V-0 rated glass-filled polyester housing
- Termination resistance: 12mΩ max (gold); 16mΩ max. (tin)
- Contact current: 3A

For more AMP Housings visit [www.Jameco.com](http://www.Jameco.com)

### Single Row

Part No.	Product No.	Positions	1	10	100
759658	87175-2	1	..... \$ .79	\$ .73	\$ .68
840780	87175-6	2	..... .72	.63	.539
840819	87175-8	3	..... 1.13	1.03	.76
742961	1-87175-0	4	..... 1.14	.99	.78
742979	1-87175-2	5	..... 1.00	.93	.87
746566	1-87175-4	6	..... 1.69	1.54	1.42

### Locking Clip Contact

- Plating: 30μ" gold in contact area, gold flash on remainder, over 50μ" nickel

Part No.	Product No.	AWG	1	10	100
840755	87165-1	26-22	..... \$ .42	\$ .39	\$ .36

## AMP Pistol Hand Grip Tool

- Use with AMPMODU IDC connectors • Manual tool

Part No.	Product No.	1	3
526643	465644-1	\$24.95	\$22.95

For more Connectors and AMP products visit our website at [www.Jameco.com](http://www.Jameco.com)

**AMP**

## AMPMODU™ Pin & Receptacle Contacts

- Plating:  
 A: gold flash over 50μ" nickel entire area, 30μ" gold on contact area;  
 B: 30μ" gold over 50μ" nickel;  
 C: gold flash over 50μ" nickel entire contact, 15μ" gold on contact area;  
 D: 15μ" gold in contact area, 100μ" ~ 200μ" bright tin lead, all over 50μ" nickel;  
 E: preplated 50μ" ~ 150μ" bright tin;  
 F: 30μ" gold in contact area, 100μ" ~ 200μ" bright tin lead, all over 50μ" nickel
- Material: PB=phosphor bronze; BC= beryllium copper
- \* Prepackaged: please order in increments of 10

736835 527486

### Pin w/ Insulation Support, Crimp Snap-In (MOD IV)

Part No.	Product No.	Material	Plating	1	10
736835	102107-2	PB	A	\$ .36	\$ .33

### Standard Pressure Receptacle Contacts (MOD IV)

Part No.	Product No.	Material	Plating	1	10
527486	87523-6	PB	E	..... *	\$ .16
527419	1-87523-6	PB	D	..... .25	.24
987845	87667-1	BC	B	..... *	Call
527507	87667-2	BC	A	..... *	.34
841352	87667-5	BC	C	..... *	.294
743082	1-87756-6	PB	D	..... *	.285

### Receptacle, Crimp Snap-In (MOD IV 1/2)

Part No.	Product No.	Material	Plating	1	10
987079	87046-1	BC	C	..... *	Call
840675	87046-3	BC	A	..... *	.377
894016	102548-3	BC	C	..... *	Call
737379	102548-6	BC	A	..... *	.378
737707	103171-5	PB	F	..... *	.255

\* Please call or visit our website for minimum order quantity & pricing

## AMP AMPMODU™ .100" (2.54mm) Receptacles

### Single Row, Non-Polarized, Crimp Snap-In (MOD IV)

For more AMP Receptacles visit [www.Jameco.com](http://www.Jameco.com)

- Black thermoplastic, flame retardant

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Pos.	Width (in.)	1	10
757345	7-87499-2	1	0.105	..... *	\$ .233
526871	87499-3	2	0.205	..... .99	.95
759711	87499-4	2	0.205	..... *	.371
526889	87499-5	3	0.305	..... .58	435
526897	87499-7	4	0.405	..... .55	.539
743031	1-87499-1	6	0.605	..... .55	.539
987642	87499-1	7	0.705	..... *	Call
893419	1-87499-5	9	0.905	..... *	Call
743040	1-87499-7	10	1.005	..... .77	.70

\* Please call or visit our website for minimum order quantity & pricing

### Single Row w/ Detents, Polarized, Crimp Snap-In (MOD IV)

- Glass filled nylon, flame retardant

Blue Part No. = Limited Quantity Available 496122

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Pos.	Width (in.)	1	10
496122	102241-1	3	0.300	..... \$ .30	\$ .282
496270	102241-2	4	0.400	..... .34	.298
496245	102241-4	6	0.600	..... .30	.266
737272	102241-5	7	0.700	..... .57	.466
737281	102241-6	8	0.800	..... .43	.405
737299	102241-8	10	1.000	..... .65	.57
745011	1-102241-0	12	1.200	..... *	Call
745029	1-102241-2	14	1.400	..... .77	.70
745037	1-102241-3	15	1.500	..... 1.04	.95

\* Please call or visit our website for minimum order quantity & pricing

## AMP AMPMODU™ .100" (2.54mm) Receptacles

Double Row, Non-Polarized, Crimp Snap-In, Short Entry (MOD IV) 759691

- Glass filled nylon, flame retardant



Part No.	Product No.	Pos.	Width (in.)	1	10
753264	5-87456-0	4	0.205	\$1.29	\$1.21
759674	87456-1	6	0.305	1.25	1.13
759691	87456-2	6	0.305	1.22	1.07
841070	87456-3	8	0.405	1.29	1.21
841109	87456-5	10	0.505	1.12	1.11
743007	1-87456-1	16	0.805	1.55	1.38
743015	1-87456-2	16	0.805	1.51	1.32
743023	1-87456-6	20	1.005	1.89	1.72
945063	4-87456-0	50	2.505	★	Call

★ Please call or visit our website for minimum order quantity & pricing

Double Row w/ Detents & Strain Relief, Polarized (MOD IV) 841387

- Black thermoplastic, flame retardant



Part No.	Product No.	Pos.	Width (in.)	1	10
841387	87922-1	10	0.500	\$2.35	\$2.31
987992	87922-4	16	0.800	★	Call
988039	87922-5	18	0.900	★	Call

★ Please call or visit our website for minimum order quantity & pricing

Double Row, Center Polarized, Crimp Snap-In (MOD IV) 496165

- Black thermoplastic, flame retardant



Part No.	Product No.	Pos.	Width (in.)	1	10
496309	102387-1	10	0.680	\$1.26	\$1.10
496157	102387-2	14	0.880	1.47	1.32
496165	102387-3	16	0.980	1.47	1.35
496173	102387-4	20	1.180	1.65	1.62
745053	1-102387-3	24	2.380	3.65	3.40
739673	1-102387-1	60	3.180	4.05	3.68
739681	1-102387-2	64	3.380	4.69	4.04

Double Row w/ Detents, Polarized, Crimp Snap-In (MOD IV)

- Glass filled nylon, flame retardant



Part No.	Product No.	Pos.	Width (in.)	1	10
841168	87631-1	6	0.300	\$ .94	\$ .92
841184	87631-2	6	0.300	1.06	.92
841221	87631-3	8	0.400	1.38	1.28
841248	87631-4	8	0.400	1.48	1.21
841272	87631-5	10	0.500	1.43	1.42
841299	87631-7	12	0.600	1.45	1.30
841328	87631-8	12	0.600	1.44	1.30
759738	87631-9	14	0.700	1.59	1.46
743058	1-87631-0	14	0.700	1.47	1.37
746582	1-87631-1	16	0.800	1.86	1.53
743066	1-87631-2	16	0.800	1.75	1.50
746591	1-87631-5	20	1.000	2.25	1.83
743074	1-87631-6	20	1.000	1.99	1.75
746603	1-87631-9	24	1.200	2.15	1.85
749610	2-87631-0	24	1.200	2.55	2.27
749628	2-87631-1	26	1.300	2.55	2.33
838701	2-87631-2	26	1.300	2.35	2.03
911761	2-87631-4	28	1.400	★	Call
749636	2-87631-6	30	1.500	2.35	2.27
841803	3-87631-6	40	2.000	2.89	2.62

★ Please call or visit our website for minimum order quantity & pricing

Keying Plugs

840721: Plugs directly into housing

526926: Plugs into standard or

intermediate pressure receptacle contacts

- Prepackaged: please order in increments of 10



Part No.	Product No.	10	100
840721	87077-2	\$ .128	\$ .108
526926	86286-1	.15	.14

★ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS. Blue P/N = Limited Quantity

RoHS compliant product

★ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## AMP AMPMODU™ .100" (2.54mm) Standard Profile Shrouded Headers

- Housing: UL94V-0, black thermoplastic
- Insulation resistance: 5,000MΩ min. initial
- Dielectric withstanding voltage: 750V @ sea level
- Operating temp.: -65°C to 105°C
- Current rating: 3A max. per contact
- 0.100" (2.54mm) centers w/ 0.025" square posts, copper alloy

- Plating: A: Duplex plated, 0.000030 min. gold on contact area, 0.0001-0.0002 min. tin/lead on solder area, w/ entire post underplated 0.000050 min. nickel; B: Duplex plated, 0.000015 min. gold on contact area, 0.0001-0.0002 min. tin/lead on solder area, w/ entire post underplated 0.000050 min. nickel; C: 0.000100-0.000200 tin/lead, over 0.000050 nickel on entire post



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Fig. 5

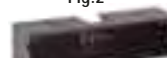


Fig. 6



For more AMP Headers visit [www.Jameco.com](http://www.Jameco.com)

Straight w/ Stand-Offs, Single Row (MOD II) – Fig. 1

Part No.	Product No.	Contacts	Plating	1	10
737889	103414-1	3	A	\$1.46	\$1.25
841117	3-102202-4	3	B	1.41	1.22
759404	8-102202-4	3	B	1.35	1.16
746902	103080-1	3	C	1.22	1.17
737897	103414-2	4	A	1.59	1.36
737176	102202-1	4	B	1.46	1.18
752739	5-102202-1	4	B	1.37	1.19
737900	103414-3	5	A	2.29	1.98
737184	102202-2	5	B	2.05	1.79
894307	103080-3	5	C	2.55	2.19
737918	103414-4	6	A	2.55	2.16
737192	102202-3	6	B	2.05	1.86
746718	102202-4	7	B	2.09	1.79
746970	103414-6	8	A	2.39	2.14
737205	102202-5	8	B	1.59	1.44
737213	102202-7	10	B	2.95	2.49
893793	102202-9	12	B	3.95	3.47
744966	1-102202-3	16	B	3.95	3.38

Right Angle w/ Stand-Offs, Single Row (MOD II) – Fig. 2

Part No.	Product No.	Contacts	Plating	1	10
737854	103361-1	3	A	\$1.49	\$1.28
841141	3-102203-4	3	B	1.46	1.27
737862	103361-2	4	A	1.79	1.53
737221	102203-1	4	B	1.65	1.40
746777	102523-1	4	C	1.41	1.22
746937	103361-3	5	A	2.39	2.07
737230	102203-2	5	B	2.35	2.01
752747	5-102203-2	5	B	2.25	1.89
737871	103361-4	6	A	2.49	2.12
737248	102203-3	6	B	2.39	2.07
746945	103361-5	7	A	2.35	1.99
746726	102203-4	7	B	2.19	1.89
737256	102203-5	8	B	2.75	2.37
746961	103361-8	10	A	2.65	2.62
737264	102203-7	10	B	3.99	3.42
746734	102203-9	12	B	4.55	3.91
744982	1-102203-1	14	B	3.85	3.28

Straight w/ Detent Windows, 0.066" End Dim., Double Row (MOD II) – Fig. 3

Part No.	Product No.	Contacts	Plating	1	10
737627	103168-1	6	A	\$1.89	\$1.66
737408	102618-1	6	B	1.25	1.14
752763	5-102618-1	6	B	1.38	1.26
737635	103168-2	8	A	★	Call
737416	102618-2	8	B	1.89	1.65
737643	103168-3	10	A	2.45	2.21
752771	5-103168-3	10	A	2.75	2.44
737424	102618-3	10	B	2.05	1.79
894673	103168-4	12	A	2.85	2.53
737432	102618-4	12	B	2.25	1.98
737651	103168-5	14	A	3.19	2.91
737441	102618-5	14	B	2.89	2.60
841133	87589-3	14	C	3.09	2.66

★ Please call or visit our website for minimum order quantity & pricing

Straight w/ Detent Windows, 0.066" End Dim., Double Row (MOD II) (Continued) – Fig. 3

Part No.	Product No.	Contacts	Plating	1	10
894711	103168-6	16	A	\$3.69	\$3.26
737459	102618-6	16	B	2.75	2.45
894753	103168-7	18	A	4.09	3.68
737467	102618-7	18	B	4.55	3.91
737660	103168-8	20	A	5.15	4.61
737475	102618-8	20	B	3.85	3.48
887852	1-103168-0	24	A	5.75	5.19
739711	1-102618-0	24	B	4.55	4.10
739788	1-103168-1	26	A	6.35	5.79
739729	1-102618-1	26	B	4.99	4.30
739796	1-103168-8	40	A	7.85	6.71
887772	1-102618-8	40	B	8.45	7.56
907112	2-103168-3	50	A	11.89	10.77

Straight w/ Detent Windows, 0.150" End Dim., Double Row (MOD II) – Fig. 4

Part No.	Product No.	Contacts	Plating	1	10
894825	103169-2	8	A	\$2.35	\$2.12
737678	103169-3	10	A	2.49	2.19
737483	102619-3	10	B	2.25	2.04
737686	103169-4	12	A	3.19	2.88
737491	102619-5	14	B	2.59	2.27
894921	103169-6	16	A	5.09	4.37
737504	102619-6	16	B	4.15	3.57
737694	103169-8	20	A	4.15	3.64
737512	102619-8	20	B	3.85	3.46
739809	1-103169-0	24	A	6.75	5.93
887879	1-103169-1	26	A	5.39	4.80
739737	1-102619-1	26	B	4.05	3.76
887916	1-103169-5	34	A	9.45	8.44

Right Angle w/ Detent Window, 0.066" End Dim., Double Row (MOD II) – Fig. 5

Part No.	Product No.	Contacts	Plating	1	10
737563	103166-1	6	A	\$1.34	\$1.15
737571	103166-2	8	A	1.79	1.50
737387	102617-2	8	B	1.45	1.22
737580	103166-3	10	A	★	Call
894420	103166-4	12	A	2.33	2.19
737598	103166-5	14	A	2.76	2.61
737601	103166-8	20	A	4.19	3.60
737395	102617-8	20	B	3.45	2.93
987765	87579-7	20	C	3.38	2.99
887801	1-103166-0	24	A	7.35	6.59
887730	1-102617-0	24	B	5.05	4.72
739770	1-103166-8	40	A	8.15	6.96
887756	1-102617-8	40	B	★	Call

★ Please call or visit our website for minimum order quantity & pricing

Right Angle w/ Detent Window, 0.150" End Dim., Double Row (MOD II) – Fig. 6

Part No.	Product No.	Contacts	Plating	1	10
894551	103167-1♠	8	A .....	★	Call
737619	103167-2♠	10	A .....	2.05	1.96
894091	102570-3♠	10	B .....	1.99	1.92
887721	1-102570-1♠	26	B .....	4.55	4.23

## JAMECO ValuePro .100" Low Profile Keyed Shrouded Headers & Connectors



- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000VAC/ 1 minute
- Pin material: tin-plated brass
- Recommend crimp tool P/N 99443, pg 228

\* Prepackaged: please order in increments of 10

Part No.	Description	1	10	100	1000
152741	Straight header	\$.45	\$.39	\$.35	\$.29
152726	Rt. angle header	\$.55	\$.50	\$.40	\$.30
152733	Single w/ latch	\$.37	\$.30	\$.25	\$.16
181673	Female pins	\$.11	\$.08		\$.06

† P/N 152733 requires 4 pins (P/N 181673)

## JAMECO ValuePro .100" Low-Profile Male Shrouded Headers

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, pg 130

**Straight Male Headers**

Part No.	Description	1	10	100	1000
67812	10-pin	\$.45	\$.399	\$.365	\$.319
68179	16-pin	\$.44	\$.40	\$.35	\$.32
68292	20-pin	\$.55	\$.505	\$.419	\$.247
68372	26-pin	\$.59	\$.437	\$.364	\$.219
68582	34-pin	\$.95	\$.78	\$.56	\$.372
181105	40-pin	1.50	1.17	\$.88	\$.61

## PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174	M505	Bench press	7.0	\$179.95	\$159.95

**M505 Accessories**

Part No.	Description	1	10	100	1000
27182	M507 Cable cutter	0.9	\$66.95	\$61.95	
27203	M510 Base plate	0.5	29.75	27.95	

## H<sup>®</sup> IDC Connector Crimping Tool

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
73252	HT214	\$15.95	\$14.39	\$12.95

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◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New Sale Lower\$ QtySave**

## AMP

### NOVO Receptacles

- 0.100" x 0.100" (2.54mm) grid center
- Preassembled housing with cover
- Accepts 28-26AWG solid or stranded cables
- Insulation displacement contacts for fast, economical mass terminations
- Contact current rating: 1A continuous
- Dielectric withstanding voltage: 1000V (receptacles); 500V (pin connectors)
- Housing, cover: 94V-0 rated thermoplastic, black • 0.100" grid pitch
- Contacts: phosphor bronze, duplex plating



### Center and Military Polarized

Part No.	Product No.	Pos.	Plating	1	10	100
901642	1658622-1	10	A	\$1.45	\$.93	\$.82
525309	746285-1	10	C	1.29	1.19	1.09
742215	1658621-1	10	B	.99	.84	.76
901685	1658622-2	14	A	1.79	1.64	1.09
525317	746285-2	14	C	1.69	1.44	1.28
901407	1658621-2	14	B	1.55	1.30	1.12
901722	1658621-3	16	B	2.39	1.55	1.14
525325	746285-3	16	C	1.59	1.50	1.46
901440	1658621-3	16	B	2.85	1.37	1.20
901765	1658622-4	20	A	2.55	1.62	1.20
525333	746285-4	20	C	1.20	1.15	1.11
901482	1658621-4	20	B	1.75	1.25	1.09
525413	746288-6	26	E	1.55	1.42	1.20
901802	1658622-6	26	A	1.79	1.49	1.22
525341	746285-6	26	C	1.48	1.26	.95
901520	1658621-6	26	B	2.85	1.79	1.35
748801	1658622-8	34	A	4.09	1.96	1.71
525350	746285-8	34	C	1.99	1.63	1.47
901562	1658621-8	34	B	2.39	1.85	1.51
525368	746285-9	40	C	1.79	1.75	1.73
901600	1658621-9	40	B	3.95	1.90	1.66
525376	1-746288-0	50	E	2.59	2.37	2.18
888353	1-1658621-0	50	B	4.85	2.31	2.02

## JAMECO ValuePro .100" (2.5mm) Straight Male Headers

- With Standard Latch**
- Double Row**
- 0.1" contact center
  - Mount vertical
  - Keying slot
  - Use with IDC socket connectors, pg 130

Part No.	Description	1	10	100	500
117664	10-pin	\$1.55	\$1.38	\$1.18	\$.73
71830	20-pin	1.67	1.42	1.28	1.14
71933	26-pin	1.49	1.34	1.07	.80
72216	50-pin	1.89	1.70	1.54	1.39

**Other Manufacturers — Great Deals**

687720	14-pin	\$1.31	\$1.17	\$1.03	\$.94
687711	40-pin	1.95	1.67	1.31	1.10

## .100" AMPLATCH™ IDC Ribbon Connectors

### Contact Plating:

- A: 30μ" gold on localized gold plate area, 50μ" min. tin on termination end;
- B: 15μ" gold on localized gold plate area, 100μ"-200μ" tin on termination end;
- C: 15μ" gold on localized gold plate area, 100μ"-200μ" tin lead termination end, all over 50μ" min. nickel on entire area;
- D: 15μ" gold on localized gold plate area, 100μ"-200μ" bright tin lead on termination end, all over 50μ" nickel on entire contact area;
- E: 30μ" gold on localized gold plate area, 100μ"-200μ" bright tin lead on termination end, all over 50μ" nickel on entire contact area

### Polarized

Part No.	Product No.	Pos.	Plating	1	10	100
901845	1658623-1	A	.....	\$1.15	\$.80	\$.76
901301	1658620-2	14	B	.....	Call	Call
901888	1658623-2	14	A	.....	Call	Call
901925	1658623-3	16	A	.....	Call	Call
901343	1658620-4	20	B	.....	1.49	1.25
901968	1658623-4	20	A	.....	Call	Call

\* Please call or visit our website for minimum order quantity & pricing

### Strain Relief for NOVO Receptacles

- UL94V-0 rated thermoplastic • Black
- \* Prepackaged: please order in increments of 10

Part No.	Product No.	Pos.	1	10	100
526045	499252-5	10	\$.20	\$.175	\$.131
526061	499252-8	16	.22	.177	.137
527697	499252-2	20	.20	.137	.103
527700	499252-3	26	.24	.179	.159
526070	499252-6	34	.26	.187	.159
526088	499252-4	50	.28	.228	.187

### Receptacles, Tulip Design, Center and Military Polarized w/ Strain Relief

- Housing and strain relief: 94V-0 rated glass reinforced thermoplastic, blue • 0.100" (2.54mm) centers
- Contacts: beryllium copper, 30μ" gold over 50μ" nickel
- Tin/lead over nickel in termination area

Ⓢ Blue Part No. = Limited Quantity Available

Part No.	Product No.	Pos.	1	10	100
620082	609-1041	10	\$3.25	\$3.15	\$3.05
620146	609-2641	26	5.75	5.21	5.15

## JAMECO ValuePro .100" (2.54mm) Female Header Receptacles

- Gold plated contacts
- 0.1" contact center

### Right Angle Mount (Side Entry)

Part No.	Contacts	Type	1	10	100	500
71160	20	Double row	\$1.50	\$1.32	\$1.19	\$1.02

### Vertical Mount (Top Entry)

Part No.	Contacts	Type	1	10	100	500
70755	8	Single row	\$.63	\$.56	\$.462	\$.371
200782	12	Single row	.93	.82	.449	.394
308592	16	Single row	.67	.55	.36	.28
308567	20	Single row	.69	.57	.37	.289
70720	16	Double row	.89	.79	.72	.65
70827	20	Double row	1.19	1.07	.86	.64
105057	30	Double row	1.09	.98	.88	.74
111705	40	Double (Tin)	1.42	1.27	1.09	.98

**Other Manufacturers — Great Deals**

454539	30	Double row	\$.99	\$.89	\$.71	\$.53
163862	34	Double row	1.05	.94	.85	.71

**AMP** .100" AMPLATCH™  
Ribbon Cable ConnectorsLow-Profile Shrouded Headers w/ 0.150" End  
Dimension, Dual Row, 0.100" Centers

- 0.120" solder tail
- 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contact: phosphor bronze
- Plating:

A: 30µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;  
B: 30µ" gold on mating area, 100µ" min. tin on solder end, all over 50µ" nickel;  
C: 15µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;

D: 15µ" min. gold on mating area, 100µ" min. tin on solder end, all over 50µ" on entire post  
E: copper alloy, duplex plated, 30µ" gold on contact area, 100µ" tin lead on solder area



496085

## Straight (no latch)

Part No.	Product No.	Pos.	Plating	1	10	100
496051	103309-1	10	A .....	\$.67	\$.65	\$.56
850216	5103308-1R♣	10	D .....	.78	.74	.68
737715	103309-2♠	14	A .....	.93	.84	.79
753571	5103309-2R♣	14	B .....	1.02	.93	.89
850241	5103308-2R♠	14	D .....	1.50	1.38	1.31
753580	5103309-3R♠	16	B .....	1.69	1.38	1.19
753521	5103308-3R♠	16	D .....	1.15	1.02	.92
496093	103309-5	20	A .....	1.52	1.36	1.18
753598	5103309-5R♠	20	B .....	1.69	1.50	1.43
496085	103308-5	20	C .....	1.22	1.11	1.05
753539	5103308-5R♠	20	D .....	1.75	1.56	1.47
753601	5103309-6R♠	26	B .....	1.69	1.50	1.42
496296	103308-6	26	C .....	1.49	1.39	1.35
850275	5103308-6R♠	26	D .....	1.47	1.26	1.06
737723	103309-7♠	34	A .....	2.05	1.82	1.59
753547	5103308-7R♠	34	D .....	1.95	1.64	1.37
737731	103309-8♠	40	A .....	2.09	1.97	1.86
496114	103308-8	40	C .....	1.85	1.71	1.61
753555	5103308-8R♠	40	D .....	1.75	1.58	1.26
739825	1-103309-0	50	A .....	2.69	2.44	2.31
739817	1-103308-0♠	50	C .....	1.99	1.79	1.53

## Right Angle (no latch)

Part No.	Product No.	Pos.	Plating	1	10	100
496131	103310-1	10	C .....	\$.59	\$.58	\$.57
753619	5103310-1R♣	10	D .....	.95	.81	.68
737791	103311-1♠	10	A .....	.71	.64	.547
753635	5103311-1R♣	10	B .....	.71	.69	.68
737740	103310-2	14	C .....	.92	.84	.81
753627	5103310-2R♣	14	D .....	1.22	1.05	.87
737803	103311-2♠	14	A .....	3.35	2.99	2.86
737758	103310-3	16	C .....	.62	.60	.60
951332	5103310-3R♣	16	D .....	1.01	.86	.72
737811	103311-3♠	16	A .....	1.07	.96	.91
737766	103310-5♠	20	C .....	1.20	1.10	1.00
951375	5103310-5R♣	20	D .....	★	Call	Call
737820	103311-5♠	20	A .....	1.65	1.44	1.36
737774	103310-6♠	26	C .....	1.55	1.43	1.31
737838	103311-6♠	26	A .....	2.25	1.65	1.48
737782	103310-8♠	40	C .....	5.45	5.00	4.19
737846	103311-8♠	40	A .....	2.95	2.65	2.50
739833	1-103310-0	50	C .....	3.19	2.87	2.46

★ Please call or visit our website for minimum order quantity and pricing

## Straight (with long latch)

Part No.	Product No.	Pos.	Plating	1	10	100
738822	104128-3	16	E ....	\$3.49	\$3.04	\$2.76

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

.100" Non-Polarized Connector  
Housings & Crimp Pins

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 119)
- Current rating: 1A
- Housing material: plastic
- Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use 159266 pin crimper, pg 227 and 100766 crimp pin, below



103191

103254











100766










145358

## Single Row



Part No.	Cross Ref.	Contacts	1	10	100	1000
100812	SCH2 	2 .....	\$.26	\$.23	\$.21	\$.17
157383	SCH3 	3 .....	.27	.24	.22	.18
100803	SCH4 	4 .....	.28	.25	.23	.19
163686	SCH5 	5 .....	.36	.324	.30	.264
103211	SCH6 	6 .....	.41	.372	.324	.252
103203	SCH8 	8 .....	.39	.35	.29	.25
103191	SCH10 	10 .....	.42	.39	.36	.31
103182	SCH20 	20 .....	.59	.54	.468	.42

## Double Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
103254	DCH8 	8 .....	\$.59	\$.53	\$.45	\$.39
157421	DCH10 	10 .....	.69	.62	.55	.49
157438	DCH14 	14 .....	.73	.71	.69	.59
103238	DCH16 	16 .....	.87	.78	.70	.64
103230	DCH20 	20 .....	.99	.89	.79	.69
157462	DCH40 	40 .....	1.09	.99	.89	.75
157472	DCH50 	50 .....	.65	.59	.47	.35

## Crimp Pins for Single/Double Row Housings

- Prepackaged: please order in increments of 10

Part No.	Cross Ref.	Contacts	10	100	1000
100766	FCH1 	Female pin .....	\$.154	\$.121	\$.077
145358	MCH1 	Male pin .....	.15	.135	.12

3M IDC Wiremount Socket  
Connectors 891 Series

## 0.100" x 0.100" for 0.050" Pitch Cables

- Bumps prevent premature latch locking
- Double recessed cover for cable terminating from either side eliminates need for single recessed cover connectors
- Contact: phosphor bronze
- Plating: 100µ" nickel underplating; 30µ" gold wiping area
- Insulation material: glass filled polyester (PBT), gray, UL94V-0 • Current rating: 1A
- With center bump, pre-assembled w/o strain relief
- Accepts 26-28AWG solid or stranded wire
- Insulation resistance: 1MΩ @ 500VDC
- Withstanding voltage: 1000VRMS



1578111

NEW

Part No.	Product No.	Positions	1	10	50
1578082	89110-0101R	10	.....\$ .63	.....\$ .57	.....\$ .54
1578091	89114-0101R	14	.....\$ .65	.....\$ .59	.....\$ .56
1578111	89116-0101R	16	.....\$ .68	.....\$ .61	.....\$ .57
1578146	89120-0101R	20	.....\$ .74	.....\$ .67	.....\$ .62
1578171	89126-0101R	26	.....\$ .84	.....\$ .77	.....\$ .71
1578197	89134-0101R	34	.....\$ .94	.....\$ .86	.....\$ .80
1578218	89140-0101R	40	.....\$ 1.26	.....\$ 1.14	.....\$ 1.07

See page 253 for more 3M Products

.100" & 2mm IDC  
Socket Connectors

## Double Row

- Mates with 2 rows of .025" Sq. or Dia. posts on patterns of .100" centers (male headers, pg 119)
- Contact material: phosphor bronze w/ 1µ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C • Current rating: 1A
- Use crimper P/N 73252, pg 129



32564

## Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
32492	S10R	10 .....	\$.29	\$.25	\$.19	\$.15
119467	S16R	16 .....	.35	.29	.22	.17
32522	S20R	20 .....	.49	.407	.299	.225
32564	S26R	26 .....	.49	.358	.297	.195
32644	S34R	34 .....	.53	.42	.38	.27
32678	S40R	40 .....	.59	.48	.42	.31
32708	S50R	50 .....	.74	.65	.449	.337
32759	S60R	60 .....	.90	.82	.74	.60

\* 2mm pin spacing

## Non-Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
138376	SN10	10	.....	\$.39	\$.34	\$.31 .28
138325	SN20	20	.....	.49	.434	.299 (225)
138333	SN26	26	.....	.47	.42	.299 (225)
138341	SN34	34	.....	.45	.40	.35 .28
138350	SN40	40	.....	.49	.45	.39 .29
138368	SN50	50	.....	.71	.63	.49 .39

3M Four-Wall Header  
2500 Series

## 0.100" x 0.100" Low Profile

- Insulator material: glass filled polyester, black high-temperature, UL94V-0
- Contact material: copper alloy
- Plating: 100µ" nickel underplating; 30µ" gold wiping area with 200µ" matte tin solder tails • Current rating: 2A
- Insulation resistance: 1MΩ @ 500VDC
- Withstanding voltage: 1000VRMS
- For 0.0621" (1.57mm) board thickness
- Center polarization prevents misinsertion



1578605

Part No.	Product No.	Positions	1	10	50	
1578533	N2510-5002RB	10	.....	\$1.49	\$1.36	\$1.28
1578541	N2510-6002RB	10	.....	1.33	1.22	1.14
1578584	N2514-6002RB	14	.....	1.39	1.26	1.19
1578605	N2516-6002RB	16	.....	1.55	1.41	1.32
1578621	N2520-6002RB	20	.....	1.59	1.45	1.37
1578672	N2526-6002RB	26	.....	1.69	1.55	1.50
1578710	N2534-6002RB	34	.....	2.09	1.87	1.79
1578736	N2540-6002RB	40	.....	2.69	2.50	2.35
1578761	N2550-6002RB	50	.....	2.79	2.51	2.34

## 3M Compact Flash Card Header

## CF Type 1, Surface Mount

- Material: liquid crystal polyester (LCP), UL94V-0, beige
- Contact material: copper alloy
- Contact plating: 100µ" nickel under plating, gold flash over 80/20 palladium nickel, 50µ" 85/15 tin/lead solder tails • Current rating: 5A
- Insulation resistance: >1 x 10<sup>9</sup>Ω @ 500VDC
- Withstanding voltage: 500VRMS



Part No.	Product No.	1	10	50
1644781	N7E50-7516PG-20 ♠ .....	\$8.19	\$6.34	\$5.17

**3M**

## IDC Wiremount Socket Connectors 3000 Series

0.100" x 0.100" for 0.050" Pitch Cables

- Insulation: glass filled polyester (PBT), gray, UL94V-0
- 100µ" nickel underplating & U-slot; 30µ" gold wiping area
- Copper alloy contacts
- Current rating: 1A
- Withstanding voltage: 1000V<sub>RMS</sub>
- Insulation resistance: 1MΩ @ 500VDC
- Accepts 26-28AWG solid or stranded wires
- Open end, center bump, military
- 1576466/1576941/1576933: open end & military (dual slot)
- 1576984: closed end, center bump, military



1576394

**NEW**

### With Strain Relief

Part No.	Product No.	Positions	1	10	50
1576941	3473-6010	10	\$2.19	\$1.99	\$1.93
1576968	3473-6610	10	2.59	2.42	2.38
1576984	3473-7610	10	2.09	1.92	1.79
1576407	3421-6620	20	3.69	3.42	3.37
1576191	3399-6626	26	4.29	3.90	3.50
1576263	3414-6634	34	5.99	5.09	4.68
1576335	3417-6640	40	7.05	5.95	5.39
1576466	3425-6050	50	8.39	8.02	6.78
1576482	3425-6650	50	8.39	8.04	7.68

### Without Strain Relief

1576933	3473-6000	10	\$1.95	\$1.84	\$1.81
1576950	3473-6600	10	1.79	1.72	1.66
1576132	3385-6600	14	2.15	2.07	2.00
1576861	3452-6600	16	2.35	2.27	2.19
1576394	3421-6600	20	2.59	2.49	2.44
1576183	3399-6600	26	3.35	3.29	3.25
1576255	3414-6600	34	4.35	4.21	4.07
1576327	3417-6600	40	5.15	4.80	4.77
1576474	3425-6600	50	6.39	5.99	5.96
1577864	7964-6500	64	9.05	8.22	7.65

## 3M IDC Socket Accessories

**NEW**



### Strain Relief for Wiremount & D-Sub Sockets

Prepackaged: please order in increments of 5

Part No.	Product No.	Pos./Description	5	50
1576597	3448-3010	10/plastic SR	\$ .29	\$ .209
1576714	3448-89110	10/SR	.178	.168
1576765	3448-89126	26/SR	.178	.168
1576802	3448-8D09A	9/SR for D-Sub	.25	.209
1576829	3448-8D25A	25/SR for D-Sub	.299	.279

### Ejector/Latch for Wiremount & Shrouded Pinless Headers

Prepackaged: please order in increments of 5

Part No.	Product No.	Description	5	50
1577080	3505-17	♂ Ejector/latch for wiremount sockets	\$ .178	\$ .168
1577098	3505-2	♂ Short pin ejector/latch for shrouded headers	.102	.095
1577119	3505-3	♂ Long pin ejector/latch for shrouded headers	.102	.094

### Keying Plug & Retainer Clip

\* Prepackaged: please order in increments of 10

Part No.	Product No.	Description	1	10
1576554	3435-0	Keying plug for wiremount sockets	*	\$ .079
1577151	3505-34	♂ CF card retainer clip	1.69	1.49

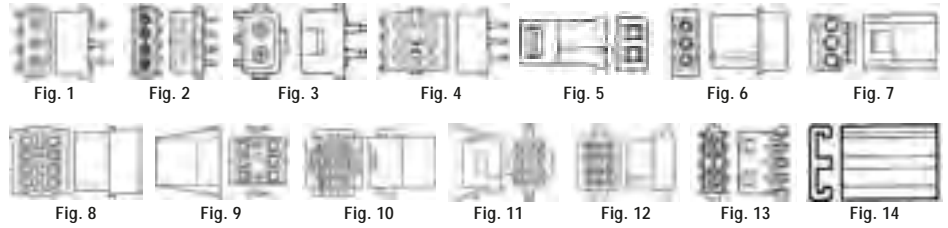
♂ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

**AMP**

## Commercial MATE-N-LOK™ Connectors & Terminals

- Fully polarized nylon housing
- Voltage rating: 350VAC or VDC
- Hot side egg crate design for safety
- Dielectric withstanding voltage: 1.5KVAC between adjacent circuits
- Insulation resistance: 500MΩ min. initial between adjacent circuits
- Durability: 50 cycles, mating and unmating
- UL94V-2 rated housing



### PCB In-Line Vertical Pin Header w/ Detent Lock (Fig. 1)

Part No.	Product No.	Positions	1	25	50
679607	350210-1	3	\$ .62	\$ .59	\$ .56
421358	350211-1	4	.65	.59	.534
679674	350214-1	16	1.07	1.04	.94

### PCB In-Line Vertical Socket Header w/ Detent (Fig. 2)

Part No.	Product No.	Positions	1	25	50
679682	770997-1	4	\$1.06	\$1.01	\$ .95

### PCB In-Line Vertical Pin Header w/ Positive Lock (Fig. 3)

Part No.	Product No.	Positions	1	25	50
679586	350539-1	2	\$ .51	\$ .486	\$ .461
679594	350541-1	3	1.37	1.30	1.23
679615	350543-1	4	1.03	.98	.93

### PCB Dual Row Vertical Pin Header w/ Positive Lock (Fig. 4)

Part No.	Product No.	Positions	1	25	50
679623	350425-1	6 (2 x 3)	\$1.65	\$1.47	\$1.31
679631	350212-1	8 (2 x 4)	.93	.88	.84
679640	1-380991-0	10 (2 x 5)	2.39	2.25	2.13
679658	350213-1	12 (2 x 6)	2.39	2.25	2.13
679666	350214-1	16 (2 x 8)	2.95	2.78	2.63

### In-Line Housing Plug, Free Hanging (Fig. 5)

Part No.	Product No.	Positions	1	25	50
527056	1-480318-0	2	\$ .21	\$ .116	\$ .102
527099	1-480303-0	3	.23	.211	.196
527101	1-480424-0	4	.23	.206	.187
679383	770827-1	4	.42	.373	.343

### In-Line Housing Cap, Free Hanging (Fig. 6)

\* Prepackaged: please order in increments of 25

Part No.	Product No.	Positions	1	25	50
679308	1-480350-0	1	\$ .20	\$ .139	\$ .098
679316	1-480351-0	1	*	.118	.099
527187	1-480319-0	2	*	.116	<b>.087</b>
679324	1-480305-0	3	.22	.206	.196
527195	1-480426-0	4	.26	.245	.237

### In-Line Housing Plug, Free Hanging w/ Positive Lock (Fig. 7)

Part No.	Product No.	Positions	1	25	50
679367	1-480721-0	3	\$ .73	\$ .71	\$ .70
679375	1-480722-0	4	.93	.89	.86

### Dual Row Housing Cap w/ Positive Lock (Fig. 8)

Part No.	Product No.	Positions	1	25	50
679332	1-480340-0	6 (2 x 3)	\$ .67	\$ .64	\$ .61
679341	1-480345-0	8 (2 x 4)	.80	.76	.72
679359	1-480339-0	10 (2 x 5)	.85	.81	.77

### Motor Mount, Dual Row Plug w/ Positive Lock (Fig. 9)

Part No.	Product No.	Positions	1	25	50
679391	1-480283-0	8 (2 x 3)	\$ .48	\$ .446	\$ .422
679404	1-480285-0	10 (2 x 5)	.85	.81	.77
679412	1-480287-0	12 (2 x 6)	1.23	1.22	1.11
679421	1-480438-0	16 (2 x 8)	1.69	1.60	1.52

### Motor Mount, Dual Row Cap w/ Positive Lock (Fig. 10)

Part No.	Product No.	Positions	1	25	50
679527	1-480271-0	6 (2 x 3)	\$ .87	\$ .81	\$ .78
679535	1-480284-0	8 (2 x 4)	1.29	1.19	1.08
679543	1-480286-0	10 (2 x 5)	1.59	1.49	1.25
679551	1-480288-0	12 (2 x 6)	1.79	1.72	1.59
679560	1-480439-0	16 (2 x 8)	1.29	1.23	1.16

### Panel Mount Housing Plug w/ Positive Lock (Fig. 11)

Part No.	Product No.	Positions	1	25	50
679471	1-480304-0	3 (1 x 3)	\$ .26	\$ .242	\$ .229
679480	1-480273-0	6 (3 x 2)	.84	.81	.78
679498	1-480274-0	9 (3 x 3)	.86	.84	.82
679501	1-480275-0	12 (3 x 4)	1.10	1.06	1.02
679519	1-480323-0	15 (3 x 5)	1.69	1.59	1.51

### Panel Mount Housing Cap w/ Positive Lock (Fig. 12)

Part No.	Product No.	Positions	1	25	50
679439	1-480276-0	6 (3 x 2)	\$ .45	\$ .417	\$ .392
679447	1-480277-0	9 (3 x 3)	.86	.82	.80
679455	1-480278-0	12 (3 x 4)	.92	.87	.82
679463	1-480324-0	15 (3 x 5)	1.36	1.35	1.34

### Vertical In-Line IDC (Fig. 13)

Part No.	Product No.	Positions	1	25	50
679691	770156-4	4 (20AWG)	\$ .55	\$ .53	\$ .51
679703	770156-3	4 (18AWG)	.55	.53	.51

### IDC Dust Covers (Fig. 14)

Part No.	Product No.	Positions	1	25	50
679711	770232-1	4 (Feed-to)	\$ .20	\$ .169	\$ .161
679720	770233-1	4 (Feed-thru)	.20	.169	.160

### Crimp Terminals

- Material: A-brass pre-tin; B-brass, gold
- Prepackaged: please order in increments of 10

Part No.	Product No.	Type	AWG	Material	10	100
526150	60617-1	♂ Socket	24-18	A	\$ .112	\$ .101
679578	60618-5	♂ Pin	24-18	B	.91	.89
526168	60619-1	♂ Socket	20-14	A	.086	.076
526125	60620-1	♂ Pin	20-14	A	.091	.083

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## AMP Universal MATE-N-LOK™ Crimp Terminals

- Solid pin diameter: 0.084"
- Used with universal mate-n-lock connectors
- Material:  
A-phosphor bronze/pre-tin; B-brass/pre-tin
- Prepackaged: please order in increments of 10

Part No.	Product No.	Type	AWG	Material	10	100
847009	350922-3	Pin	12-10	A ...	\$1.35	\$1.22
845687	350537-1	Socket	20-14	B ...	.049	.046

## AMP Extraction Tool

- Use with miniature rectangular connectors

Part No.	Product No.	1	10
526660	455822-2	\$18.99	\$17.07

## Cinch .085" (2.16mm) Density Mini Ribbon Connectors

- Standard 90° orientation, commercial end entry cable
- Terminates discrete wires with ultra-low resistance solder connections
- Metal shell provides grounding and shielding capability
- All plugs lock w/ INSTALATCH passive latch features for automatic latching
- Insulator: blue UL94V-0 rated diallyl phthalate type MDG
- Contact: copper alloy
- Contact plating: select gold over 50μ" select nickel (standard); 30μ" select gold over 50μ" select nickel
- Shell: steel; plating: zinc w/ chromate coating
- Voltage rating: 500VAC/125VAC
- Withstanding voltage: 1200VAC<sub>RMS</sub>
- Contact rating: 5A
- Contact resistance: 6mΩ
- Insulation resistance: 5000MΩ min. initial

### Solder Cup, Metal Shell

Part No.	Product No.	Pos.	1	25	50
457924	57-40500	50 socket	\$6.69	\$6.02	\$4.82

### IDC, Super Ribbon w/ Hood (Plastic)

1809371	97-22640-91	64 socket	\$7.99	\$7.49	\$7.29
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## Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 28 AWG flat cable
- 105°C rating
- Tin-plated contacts

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
12407	4' DB25 M-F	\$5.39	\$4.74	\$4.31
208582	6' DB9 M-F	4.75	4.26	3.83

## AMP Card Edge Connector Standard Edge II

- 0.025" square posts
- Accepts double sided PC boards 0.051" – 0.070" thick
- Voltage rating: 1000VAC
- Contact res.: 10mΩ max.
- Contact rating: 3A
- Insulation resistance: 5000MΩ min.
- Housing: glass filled polyester 94V-0 rated
- Contacts: phosphor bronze w/ 30μ" gold in contact area, tin on posts w/ entire contact nickel underplated

Part No.	Product No.	1	10	100
849629	5-530843-0	\$2.15	\$1.94	\$1.83

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Cinch CARDCON Edge Connectors Commercial Grade

### 0.156" (3.96mm) Density

- Insulation material: glass filled polyester, black, UL94V-0 rated
- Current rating: 5A
- Contact material: spring brass
- Contact plating: 10μ" selective gold over 30μ" nickel in contact, tin on tails
- Withstanding voltage: 1800VAC<sub>RMS</sub>
- Contact resistance: 6mΩ max.
- Insulation resistance: 5000MΩ min.

Double solder tails, double readout, 0.200" (5.08mm) row spacing

Part No.	Product No.	Contacts/Pos.	1	25	50
1775941	50-12SN-3	6/12	\$2.39	\$2.08	\$1.78
423118	50-20SN-3	10/20	3.19	2.95	2.69
423265	50-44SN-3	22/44	5.29	4.79	4.39

## Cinch CARDCON Edge Connectors High Reliability

### 0.156" (3.96mm) Density DIP Solder/Solder Eyelet

- Insulation material: thermoplastic black or diallyl phthalate green
- Contact material: phosphor bronze
- Contact plating: 30μ" selective gold over 50μ" copper in contact area, 5μ" gold on tails
- Withstanding voltage: 1800VAC<sub>RMS</sub>
- Current rating: 5A
- Contact resistance: 6mΩ
- Insulation resistance: 5000MΩ min.

DIP solder tails, double readout, 0.200" (5.08mm) row spacing

Part No.	Product No.	Contacts/Pos.	1	25	50
1775959	50-30H-10	15/30	\$6.99	\$6.49	\$6.29
1775967	50-44H-10	22/44	9.49	9.29	8.75
423273	50-44B-10	22/44	4.35	3.91	3.59

DIP solder tails, single readout, 0.128" (3.25mm) mounting hole

Part No.	Product No.	Contacts/Pos.	1	25	50
423290	50-22B-10	22/22	\$6.25	\$5.67	\$5.21

## Cinch Card Extender

- Insulation material: diallyl phthalate, green
- Contact material: beryllium copper
- Contact plating: 30μ" select gold over 50μ" nickel in contact area, 10μ" gold tails
- Withstanding voltage: 830VAC<sub>RMS</sub>
- Current rating: 5A
- Contact resistance: 5mΩ max.
- Insulation resistance: 5000MΩ min.

Part No.	Product No.	Contacts/Pos.	1	25	50
1775975	50-44S-30	22/44	\$7.99	\$7.49	\$7.29

## Cinch Accessories

- 1809362: card guide, polypropylene, green
- 448489: polarizing key, glass epoxy

Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	25	50
1809362	50GP-1	\$0.99	\$0.89	\$0.82
448489	50PK-2	.29	.256	.243



## Card-Edge Connectors

- Fits all PC boards
- 0.054" to 0.070" thick
- Solder Eyelet 0.140" Spacing Between Rows**
- Contact centers: 0.156" • With mounting ears

Part No.	Position	Contacts	1	10	100
39117	22/44	Gold	\$2.95	\$2.65	\$2.38

### Solder Tail 0.200" Spacing Between Rows

- Contact centers: 0.100"
- Without mounting ears

Part No.	Position	Contacts	1	10	100
40695	31/62	Tin (PC/AT)	\$1.12	\$0.99	\$0.78



## .100" IDC Plug Connectors

### Double Row

- Plastic
- 0.100" x 0.100" grid
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, pg 130

Part No.	Cross Ref. No.	Contacts	1	10	100
29218	P50	50	\$2.45	\$2.19	\$1.87



## PCB Centronics Connectors

- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10	100
72151	36-contact F, rt angle	\$3.55	\$3.19	\$2.87
72081	50-contact F, rt angle	5.94	5.34	4.74



## PS/2 Keyboard Adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	100
159097	1.4"	Metal	\$3.49	\$2.99	\$2.24



## D-Sub 9-Pin to 25-Pin Serial Adapters

- 10321: For PC/XT systems with DB25 serial ports.
- 139985: gold-plated contacts, extra long thumbscrews

Part No.	Description	1	10	100
10321	DB9 M to DB25 F	\$5.15	\$4.32	\$3.64
189632	DB9 M to DB25 M	3.49	3.15	2.85
139985	DB9 F to DB25 F	3.99	3.36	2.52

### Other Manufacturers — Great Deals

## D-Sub 9-Pin to 25-Pin Serial Adapters

- 10305: For use in AT or other computer systems that have 9-pin D-sub serial ports.
- 163740: For PC/XT systems with DB25 serial ports.

Part No.	Description	1	10	100
10305	DB9 F to DB25 M	\$3.15	\$2.69	\$1.99
163740	DB9 M to DB25 F, thumbscrews on DB9 side only	2.55	2.19	1.65

## Cinch

**Lower \$\$\$**

## Jones Plugs and Sockets

For more Cinch Jones Plugs and Sockets visit [www.jameco.com](http://www.jameco.com)

### Series 300 Multiple-Density Solder-Eyelet Connectors

- Insulation material: molded monoblock, black phenolic
- Current rating: 10 amps
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Operating voltage: 250 VAC max.
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic

⊕ Blue Part No. = Limited Quantity Available



248786



248823

### Plugs with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
248786	P-304-CCT	4	\$3.09	\$2.49
248794	P-306-CCT	6	2.89	2.62
445966	P-312-CCT	12	4.69	4.20
445982	P-315-CCT	15	7.25	6.57

### Series 2400 Multiple-Density Solder-Eyelet Connectors

- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Contact plating: cadmium
- Socket contacts have solder eyelets with 0.093" diameter
- Plug prongs are 0.250"W x 0.55"Th.
- For use in cable-to-cable and cable-to-panel applications
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact material: plug–brass; socket–phosphor bronze
- Hood material: formed metal with dielectric liner



428197



444701

### Sockets with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
248807	S-302-CCT	2	\$2.69	\$2.47
248815	S-304-CCT	4	3.49	3.14
248823	S-304-CCT	4	2.99	2.76
248831	S-306-CCT	6	3.75	3.33
427952	S-315-CCT	15	9.95	9.10

### Plugs with Angle Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
445771	P-302-AB	2	\$1.55	\$1.38
445860	P-304-AB	4	1.99	1.82
445907	P-306-AB	6	2.09	1.99

### Sockets with Angle Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
428023	S-302-AB	2	\$1.46	\$1.37
428120	S-304-AB	4	1.99	1.90
428171	S-306-AB	6	2.49	2.32

### Plugs with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
428234	P-2406-CCT	6	\$8.65	\$7.93
428197	P-2408-CCT	8	10.39	9.48

### Sockets with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
444681	S-2406-CCT	6	\$8.49	\$6.50
444699	S-2408-CCT	8	7.39	7.05
444672	S-2412-CCT	12	11.45	10.41

### Socket with Angle Bracket

Part No.	Product No.	Contacts	1	25
444701	S-2408-AB	8	\$9.42	\$7.07



## .100" DIP Header Plugs

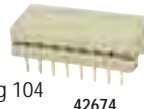
- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

Part No.	Prod.No.	Width	Pins	1	10	100
37130	14HP	0.3"	14	\$1.35	\$1.11	\$0.99
37331	16HP	0.3"	16	1.65	1.45	1.17



## .100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 104
- Plastic with gold-plated contacts
- Current rating: 1 A



42674

Part No.	Ref. No.	Width	Contacts	1	10	100
42657	609-14	0.3"	14	\$.55	\$.452	\$.396
42674	609-16	0.3"	16	.65	.53	.412
104097	609-20	0.3"	20	.83	.75	.66
42691	609-24	0.6"	24	.95	.82	.74
99670	609-28	0.6"	28	.89	.80	.72
42712	609-40	0.6"	40	1.29	1.17	1.05



## DIN and Mini DIN Plugs & Receptacles



177236

- Solder barrels w/ strain relief
- See pg 104 for cable

Part No.	Pins	Type	1	10	100
142280	4	Mini plug	\$.79	\$.68	\$.53
142262	6	Mini plug	.89	.77	.59
177244	6	Mini receptacle	1.19	1.02	.83
111879	8	Mini plug	1.19	1.07	.89
177236	8	Mini receptacle	1.09	.93	.69
15879	5	DIN plug	.54	.49	.43
180873	5	DIN receptacle	.63	.54	.408
15886	6	DIN plug	.64	.54	.42
15894	8	DIN plug	.78	.68	.516



## DIN Female Sockets

- Metal body
- Panel mount with solder lugs



15852

Part No.	Cross Ref.	# of pins	1	10	100
15844	DINJ5	5	\$1.39	\$1.25	\$1.14
15852	DINJ6	6	1.75	1.56	1.44
15861	DINJ8	8	1.49	1.35	1.15

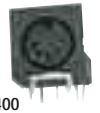


## Right Angle DIN Female Sockets

- Set back: 0.5"
- PC mount contacts

119475: Plastic/metal body

29400: Plastic body



29400

Part No.	Cross Ref. No.	# of pins	1	10	100
119475	MDR6S	6 (mini)	\$2.45	\$2.13	\$1.64
29400	RD5	5	.71	.64	.48



## Slim-Line D-Sub Gender Changers



18497



56071



18447

### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)
- Tin plated shells

Part No.	Description	1	10	100
18497	9-pin male to male	\$5.19	\$4.72	\$4.19
18489	9-pin female to female	5.85	5.29	4.70
56071	15-pin male to male	3.95	3.49	2.95
56063	15-pin female to female	4.15	3.74	3.35
119320	15-pin female to female HD	4.75	4.28	3.84
119301	15-pin male to male HD	5.25	4.76	4.19
18447	25-pin male to male	5.94	5.39	4.79
18420	25-pin female to female	5.95	5.48	4.86
170085	25-pin M-F (pass through)	3.54	3.18	2.82



## Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

Internal pin configuration:

17224: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20  
 26243: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7



26243

Part No.	Description	1	10	100
26243	DB25 M to DB25 F	\$4.35	\$3.98	\$3.80
17224	DB25 F to DB25 F	3.65	3.09	2.62



## Standard D-Sub Gender Changers



16635



16643

- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635	D-sub 9-pin male	\$2.34	\$2.10	\$1.79
16643	D-sub 9-pin female	1.95	1.75	1.49

[www.jameco.com](http://www.jameco.com)

More Connectors available on our website. Visit us online today!

⬆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## JAMECO ValuePro USB-A & B Connectors

1.0 and 2.0



EXCLUSIVE

161024 (USB-A)

230958 (USB-B)

### Female Connectors

- PC mount right angle with board locks

Part No.	Description	1	10	100	1000
161024	USB-A 1.0 conn. (F)	..... \$ .86	..... \$ .75	..... \$ .68	..... \$ .61
230958	USB-B 2.0 conn. (F)	..... \$ .99	..... \$ .85	..... \$ .55	..... \$ .42

## PS/2 – USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.



- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse

Part No.	Length	Housing	1	10	25
645351	13"	USB adapter	..... \$12.35	..... \$11.75	..... \$11.15

## AMP USB Type-B Connector

- 4-position, thru-hole
- Right angle
- Material: shell and contacts – copper alloy; housing – UL94V-0 thermoplastic, black
- Plating: 0.076µm min. gold over 0.76µm min. palladium-nickel on mating area, 3.8µm min. matte tin on solder tails both over nickel

NEW



Part No.	Product No.	1	10	100
841053	292304-1	..... \$ .89	..... \$ .86	..... \$ .84

## Panel Bracket Cable Assemblies

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector

149623



355688: 1 serial port 149623: 1 parallel port

Part No.	Description	1	10	25
355688	DB9 to 10-pin header	..... \$2.25	..... \$1.91	..... \$1.43
149623	DB25 to 26-pin header	..... \$4.29	..... \$3.84	..... \$2.87

## Computer Card Bracket

- 4-40 threaded tabs
- Material: steel, nickel plated
- Length: 4.725"
- PCI format



Lower \$\$\$

Part No.	Product No.	Description	1	10	100
1582356	9203	Blank panel	..... \$1.99	..... \$1.95	..... \$1.92

## Computer Card Brackets

Fig.: 1 2 3 4 5

- For securing cards into bus slots • Length: 4.75"
- Fits PC/XT/AT cases • See pg 116 for DB connectors

Part No.	Description	Fig.	1	10	100
11754	Blank back panel	1	..... \$1.79	..... \$1.59	..... \$1.45
101718	For DB9 connector	2	..... \$1.79	..... \$1.59	..... \$1.45
101733	For DB25 connector	3	..... \$1.79	..... \$1.52	..... \$1.14
101741	For DC37 connector	4	..... \$1.79	..... \$1.52	..... \$1.14
101831	For DB9/DB25 conn.	5	..... \$1.79	..... \$1.59	..... \$1.45

## AMP DIP Sockets

### Dual Leaf Straight Solder Tail

- Accepts .008" to .014" thick IC leads
- Contact: phosphor bronze w/ 15µ" gold plate
- Housing: glass filled thermoplastic, 4V-0 rated, black

524576

Part No.	Product No.	Pos.	Width	1	10	100
524576	2-640357-4	14	0.3	..... \$ .54	..... \$ .51	..... \$ .49
524584	2-640358-4	16	0.3	..... \$ .59	..... \$ .54	..... \$ .52

### Economy Ladder Style

- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating
- Prepackaged: please order in increments of 10

Lower \$\$\$

Part No.	Product No.	Pos.	Width	10	100	500
526281	390261-1	6	0.3	..... \$ .071	..... \$ .068	..... \$ .065
683091	1-390261-1	6	0.3	..... \$ .071	..... \$ .068	..... \$ .065
526299	390261-2	8	0.3	..... \$ .081	..... \$ .074	..... \$ .07
683104	1-390261-2	8	0.3	..... \$ .081	..... \$ .074	..... \$ .07
526192	390261-3	14	0.3	..... \$ .089	..... \$ .084	..... \$ .081
683112	1-390261-3	14	0.3	..... \$ .106	..... \$ .098	..... \$ .089
526205	390261-4	16	0.3	..... \$ .093	..... \$ .086	..... \$ .082
683121	1-390261-4	16	0.3	..... \$ .125	..... \$ .105	..... \$ .098
526213	390261-5	18	0.3	..... \$ .146	..... \$ .135	..... \$ .118
683139	1-390261-5	18	0.3	..... \$ .146	..... \$ .135	..... \$ .118
526221	390261-6	20	0.3	..... \$ .102	..... \$ .097	..... \$ .093
683147	1-390261-6	20	0.3	..... \$ .141	..... \$ .129	..... \$ .119
683163	1-390261-8	24	0.3	..... \$ .183	..... \$ .174	..... \$ .165
526230	390262-1	24	0.6	..... \$ .185	..... \$ .176	..... \$ .167
683198	1-390262-1	24	0.6	..... \$ .185	..... \$ .176	..... \$ .167
526248	390261-9	28	0.3	..... \$ .243	..... \$ .235	..... \$ .219
683171	1-390261-9	28	0.3	..... \$ .243	..... \$ .235	..... \$ .219
526256	390262-2	28	0.6	..... \$ .255	..... \$ .237	..... \$ .221
683201	1-390262-2	28	0.6	..... \$ .255	..... \$ .237	..... \$ .221
526272	390262-5	40	0.6	..... \$ .233	..... \$ .216	..... \$ .212
683227	1-390262-5	40	0.6	..... \$ .282	..... \$ .271	..... \$ .252

### Economy Over-the-Component Style

Part No.	Product No.	Pos.	Width	1	10	100
526264	390263-2	32	0.6	..... \$ .26	..... \$ .241	..... \$ .229
683286	1-390263-2	32	0.6	..... \$ .20	..... \$ .189	..... \$ .188

## AUGAT PLCC Sockets

- Contacts: copper alloy with 180µ" to 340µ" tin plate over 50µ" min. nickel
- Insulator: PPS brown, UL94V-0
- Contact res.: 30mΩ max.
- Capacitance: 1pF max. @ 1kHz • Current rating: 1A
- Dielectric withstanding voltage: 600VAC
- Size: 848765: 0.89"W x 0.36"H; 848829: 1.39"W x 0.36"H



848765

Part No.	Product No.	Positions	1	10	100
848765	PCS-044A-1-LF	44	..... \$2.09	..... \$2.07	..... \$2.05
848829	PCS-084A-1-LF	84	..... \$2.89	..... \$2.77	..... \$2.64

## AUGAT HOLTITE Series Zero-Profile Press-Fit Socket

- Contact resistance: 10mΩ max.
- Contact rating: 3A
- Carrier strip: mylar
- Contact: beryllium copper • Finish: gold
- Round lead: 0.025" to 0.035" diameter
- Prepackaged: please order in increments of 5



NEW

Part No.	Product No.	5	50
848132	8134-HC-8P2	..... \$ .161	..... \$ .155

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## JAMECO ValuePro

- Locking tabs
- Tinned contacts
- Keyed mounting posts
- Memory module sockets

EXCLUSIVE

## SIMM Socket

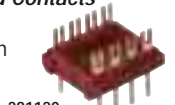


Part No.	Description	1	10	100	500
100302	Single x 30-pin, vert.	..... \$ .99	..... \$ .89	..... \$ .79	..... \$ .75

## ARIES DIP Headers

### Series 600 Headers w/ Coined Contacts

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temp. cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads



291120



291996

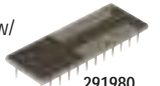
Part No.	Product No.	Pos.	W (in.)*	1	10	100
291120	08-600-10	8	0.300	..... \$1.09	..... \$ .96	..... \$ .79
291312	14-600-10	14	0.300	..... \$1.55	..... \$1.37	..... \$1.11
291574	16-600-10	16	0.300	..... \$1.69	..... \$1.49	..... \$1.22
291996	24-600-10	24	0.600	..... \$2.55	..... \$2.22	..... \$1.82

\* Center to center pin width

## ARIES SOIC/SOJ to DIP Adapters

### Series 350000

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins w/ 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028" (0.71mm) Dia.
- Center pins: 0.300" (7.62mm) • SOIC package

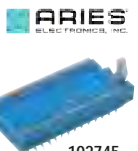


291980

Part No.	Product No.	Pins	L"xW"	1	10	100
291208	08-350000-10	8	.400 x .46	..... \$6.59	..... \$5.59	..... \$4.50
291292	14-350000-10	14	.700 x .45	..... \$5.85	..... \$4.91	..... \$4.63
291515	16-350000-10	16	.800 x .45	..... \$6.55	..... \$5.59	..... \$4.65

## Series 526 Low Profile ZIF Sockets

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max.
- Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" (0.89mm) Dia.



102745

Part No.	Product No.	Pins	L" x W"	1	10	100
102745	28-526-10	28	1.64 x .75	..... \$5.75	..... \$5.24	..... \$4.71
102753	40-526-10	40	2.24 x .75	..... \$7.35	..... \$6.25	..... \$4.69

## JAMECO ValuePro PLCC Solder Tail Sockets

- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"



71969

Part No.	Cross Ref. No.	Pins	1	10	50	100
71618	G1P444	44	..... \$1.15	..... \$ .99	..... \$ .81	..... \$ .69
72442	G1P452	52	..... \$1.05	..... \$ .83	..... \$ .68	..... \$ .58
71969	G1P468	68	..... \$1.39	..... \$1.18	..... \$1.06	..... \$ .94
71977	G1P484	84	..... \$1.35	..... \$1.24	..... \$ .97	..... \$ .73

### Other Manufacturers — Great Deals

687703	821574-1	68	..... \$1.03	..... \$ .93	..... \$ .84	..... \$ .75
687691	821573-1	84	..... \$1.40	..... \$1.31	..... \$1.18	..... \$ .99

**AUGAT**

## DIP Sockets

**NEW**

### 500 Series Four Fingered Contact & Solid Insulator

- Precision four fingered inner contacts provide concentric funnel entry for easy flat & rounded lead insertion
- Insulator: thermoplastic polyester, UL94V-0 rated
- Sleeve: machined brass/formed copper
- Contact: beryllium copper • Contact plating: gold
- Contact res.: 10mΩ max. • Contact rating: 3A
- Capacitance: 1pF per MIL-STD-202
- Insulation resistance: 5000MΩ min.
- Dielectric withstanding voltage: 1000V<sub>RMS</sub>

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Pins	Width	1	10	100
619971	508-AG10D	8	0.3"	\$3.49	\$3.16	\$2.62
619989	514-AG10D	14	0.3"	4.19	3.78	3.14
620015	516-AG10D	16	0.3"	5.19	5.16	4.03
847754	520-AG10D	20	0.3"	4.25	3.99	3.75
847877	528-AG10D	28	0.3"	11.49	10.77	10.13

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## ARIES High Temp. Universal ZIF Test Sockets

### Series 6554

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- 10: 100μ" tin over 50μ" nickel;
- 11: 10μ" gold over 50μ" nickel
- Operating temp.: -10: 221°F (105°C) – tin plating
- 11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600"
- Insulation res.: 1000MΩ • Contact current: 1A
- Dielectric withstanding voltage: 1000VAC

Part No.	Product No.	Pins	L" x W"	1	10	100
103992	24-6554-10	24	1.8 x 0.9	\$7.89	\$7.13	\$6.29
104003	28-6554-10	28	2.0 x 0.9	8.89	7.76	7.51
104012	32-6554-10	32	2.1 x 0.9	9.95	8.49	8.29
104030	40-6554-10	40	2.5 x 0.9	11.85	10.29	9.92
295162	28-6554-11	28	1.4 x 0.9	11.85	10.91	10.36
295209	32-6554-11	32	1.6 x 0.9	13.15	11.49	11.39
295233	40-6554-11	40	2.0 x 0.9	16.05	14.05	13.70

## Machine Contact Single-In-Line Female Sockets

- Machine tooled • Single row
- Solder tail and wire wrap

Part No.	Description	1	10	100
78642	10-pin	.27	.24	.21
78642	30-pin	.99	.88	.76
175920	36-pin	1.35	1.20	1.07
101283	20-pin WW2	1.65	1.50	1.21
104054	30-pin WW3	2.25	2.01	1.71

† Lead length: .435" (2) \* Lead length: .575" (3)

## Machine Contact Dual-In-Line Female Sockets

- 0.100" centers
- Solder tail contact: .114"L
- Contact clip: gold • Pin sleeve: tin

Part No.	Cross Ref. No.	Pins	1	10	100
212880	SA161000	16	\$ .40	\$ .37	\$ .34
212936	SA481000	48	1.20	1.11	1.01

## Machine Tooled Solder Tail Low-Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
167004	6MLPT	6	0.3	\$ .29	\$ .26	\$ .18
51626	8MLP	8	0.3	.28	.25	.21
37197	14MLP	14	0.3	.44	.40	.34
37402	16MLP	16	0.3	.47	.43	.37
65585	18MLP	18	0.3	.65	.57	.492
38623	20MLP	20	0.3	.59	.55	.45
39387	24SMLP	24	0.3	.79	.70	.56
39351	24MLP	24	0.6	.78	.71	.64
114412	28SMLP	28	0.3	.85	.75	.65
40329	28MLP	28	0.6	1.95	1.77	1.53
105381	32MLP	32	0.6	.95	.85	.75
41136	40MLP	40	0.6	1.59	1.42	1.07
42060	48MLP	48	0.6	1.55	1.40	1.25

### Other Manufacturers — Great Deals

662573	8MLP	8	0.3	\$ .22	\$ .20	\$ .17
192209	224SMLP	22	0.4	.53	.477	.382
652359	24MLP-GLD	24	0.6	.59	.53	.42
184680	284SMLP	28	0.4	.80	.72	.58
662629	40MLP	40	0.6	1.09	.95	.69

## Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold
- Tin-plated leads
- Contact resistance: <5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Material: beryllium copper or phosphor bronze
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Insulation resistance: greater than 1000MΩ
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
94474	8MSWW3	8	0.3	\$ .64	\$ .55	\$ .456
62051	14MSWW3	14	0.3	1.05	.88	.74
37411	16MSWW3	16	0.3	1.19	1.01	.85
94482	18MSWW3	18	0.3	1.15	.98	.82
38632	20MSWW3	20	0.3	1.39	1.20	1.00
105372	24MSWW3	24	0.3	1.59	1.36	1.14
94491	24MSWW3	24	0.6	1.86	1.58	1.34
200716	283MSWW3	28	0.3	1.85	1.54	1.29
40337	28MSWW3	28	0.6	1.75	1.47	1.22
117057	32MSWW3	32	0.6	2.19	1.97	1.58
94503	40MSWW3	40	0.6	2.75	2.35	1.96

### Other Manufacturers — Great Deals

313656	24MSWW3	24	0.6	\$1.43	\$1.26	\$1.06
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## Dual Wipe Solder Tail Low-Profile Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)
- Prepackaged: please order in increments of 10

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
112193	6LPD	6	0.3	\$ .09	\$ .066	\$ .063
112206	8LPD	8	0.3	.09	.08	.07
112214	14LPD	14	0.3	.10	.075	.05
112222	16LPD	16	0.3	.13	.115	.095
112231	18LPD	18	0.3	.16	.14	.12
112281	24SLPD	24	0.3	.13	.111	.083
112266	24SLPD	24	0.6	.158	.136	.122
112300	28SLPD	28	0.3	.428	.388	.347
112301	32LPD	32	0.6	.206	.191	.175
112311	40LPD	40	0.6	.472	.417	.345

### Other Manufacturers — Great Deals

### Single & Dual Wipe Low-Profile Sockets

Part No.	Ref. No.	Pins	Width (in.)	10	100	1000
51571	8LP	8	0.3	\$ .063	\$ .054	\$ .045
689928	ED08DT	8†	0.3	.075	.065	.055
37162	14LP	14	0.3	.081	.063	.054
689936	ED14DT	14†	0.3	.08	.065	.04
37373	16LP	16	0.3	.213	.191	.128
689944	ED16DT	16†	0.3	.11	.09	.07
38113	18LP	18	0.3	.099	.084	.063
689952	ED18DT	18†	0.3	.14	.12	.10
38608	20LP	20	0.3	.222	.185	.13
112248	20LPD	20†	0.3	.153	.13	.098
39378	24SLP	24	0.3	.161	.137	.103
39335	24LP	24	0.6	.128	.081	.061
40301	28LP	28	0.6	.171	.117	.081
112272	28LPD	28†	0.6	.19	.16	.14
689961	ED28DT	28†	0.3	.18	.15	.11
689979	ED32DT	32†	0.6	.18	.15	.11
41111	40LP	40	0.6	.25	.23	.16
689987	ED40DT	40†	0.6	.22	.19	.13

† Dual Wipe

## Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wrapping
- Plastic
- Can easily write location, part number or function

Part No.	Prod. No.	Pins	Width (in.)	1	10	100
51561	8ID	8	0.3	\$ .44	\$ .35	\$ .30
37145	14ID	14	0.3	.35	.31	.28
37356	16ID	16	0.3	.36	.325	.247
38586	20ID	20	0.3	.47	.452	.429
39327	24ID	24	0.6	.44	.408	.384
40299	28ID	28	0.6	.78	.71	.57
41101	40ID	40	0.6	.94	.92	.91

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RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

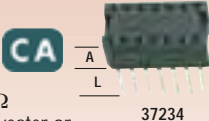
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135

## Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: <5mΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3)
- Sleeve material: brass • Body height: .300" (A)



### Gold (WW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37234	14WWW2	14	0.3	\$1.79	\$1.62	\$1.43	\$1.31
37480	16WWW2	16	0.3	3.45	3.32	2.46	2.15
38675	20WWW2	20	0.3	2.45	2.19	2.00	1.82
40353	28WWW2	28	0.6	5.75	5.15	4.75	4.15

### Tin (TWW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37218	14TWWW2	14	0.3	\$1.38	\$1.24	\$1.12	\$1.01
87637	18TWWW2	18	0.3	1.43	1.36	1.29	1.19
75380	20TWWW2	20	0.3	2.55	2.45	1.81	1.59
75416	24TWWW2	24	0.6	2.25	1.98	1.49	1.25
41180	40TWWW2	40	0.6	2.99	2.58	2.15	1.95

### Other Manufacturers — Great Deals

196841	14TWW3	14	0.3	\$ .82	\$ .74	\$ .59	\$ .44
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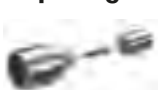


## N-Type Crimp Plug

- Attachment (outer/inner): crimp/crimp • Silver-plated

697012: RG8/9/87A/213/214/225

697021: RG55/142/223/400



Part No.	Product No.	1	10	25
697012	82-4425	\$14.15	\$13.71	\$13.09
697021	82-5370	10.35	10.05	9.61



## N-Type Adapter

- In-series • Socket/socket
- Body style: bulkhead
- Brass, nickel plated
- Contact: beryllium copper, silver plated



Part No.	Product No.	1	10	25
697039	82-66	\$24.99	\$24.26	\$22.36



## SMA Crimp Plug

- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact
- Type: crimp plug • Material: brass
- For RG174/U, RG188/U, and RG316/U cables



Part No.	Product No.	1	10	25
188488	901-9877-RFX	\$2.45	\$1.96	\$1.71



## SMA PCB Jacks

- Applications: cellular phone, data communication, instrumentation and video
- 50Ω impedance
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C

Lower\$\$\$



Part No.	Product No.	1	10	25
188509	901-144-8-RFX	\$3.15	\$2.53	\$2.45
188525	901-143-6-RFX	5.35	4.27	4.19

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

♣ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## BNC Connectors and Adapters

- Frequency range: 0-4GHz
- Contact plating: silver/gold
- Cable type: 696141: RG108A  
188349: RG174/188/316  
696757: RG174/188A/316/Belden 7805A

- Working voltage: 500V
- Body plating: nickel/tin-lead  
696159: RG174/188A/316/Belden 7805A  
188306: RG58/184



Part No.	Product No.	Fig.	Description	1	10	25
696132	31-10	—	50Ω receptacle, straight/bulkhead, solder cup	\$5.19	\$5.09	\$5.05
188429	31-208-RFX	1	50Ω Jack-plug-jack	4.19	3.39	2.65
188411	31-219-RFX	2	50Ω Straight jack-to-jack	3.19	2.89	2.49
223554	31-3220	3	50Ω bulkhead adapter, straight, jack-jack (UG-492D/U)	11.25	9.88	8.90
223511	31-221	4	50Ω bulkhead receptacle, straight, solder cup (UG-1094/U)	1.99	1.79	1.64
696141	31-2226	5	50Ω plug, twin BNC, straight, clamp/solder	18.49	17.96	16.58
696159	31-315	6	50Ω plug crimp, 3-piece	6.25	6.05	5.39
188349	31-315-RFX	7	50Ω plug crimp, 3-piece	2.25	1.99	1.75
188306	31-320-RFX	6	50Ω plug crimp, 3-piece	1.75	1.30	1.06
696757	69475	5	50Ω plug, straight, clamp/solder	10.19	9.17	8.25



## BNC Connectors

Quantity SAVE



Part No.	Cross Ref. No.	Fig.	Description	1	10	100
311344	31-10-RFX	1	50Ω BNC jack, bulkhead	\$2.46	\$2.11	\$1.84
311327	69475	2	50Ω BNC plug, clamp for RG-174/179/187/188/316	5.99	4.72	3.54
355179	31-221	3	50Ω BNC blkhd rcptcl w/ grounding lug, solder cup (UG-1094/U)	1.75	1.70	1.65
71459	B-611T	4	BNC male terminator (50Ω)	1.86	1.38	1.19
71790	200-177	4	BNC male terminator (75Ω)	1.62	1.31	1.07
135618	200-141	5	BNC male with pin and ferrule (RG6)	1.18	.92	.60
71482	200-145	5	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35
71271	200-143	5	BNC male with pin and ferrule (RG59/62)	.98	.80	.71
112109	G7409	5	BNC male with pin and ferrule (RG174)	1.79	1.45	1.29
71781	200-142	6	BNC male twist-on (RG59/62)	1.09	.99	.89
71590	G1B235	7	BNC female panel mount (UG-1094A)	1.79	1.62	1.50
71909	200-160	8	BNC female/female coupler (UG-914)	1.29	.99	.85
127343	B-311	9	BNC male/male coupler (UG-491B/U)	2.39	2.15	1.67
111561	200-148	10	BNC female isolated bulkhead	2.29	1.99	1.79
148224	200-165	11	BNC female bulkhead feed-thru	1.99	1.89	1.69
148232	B-332-IF	11	BNC female isolated bulkhead feed-thru	2.49	2.25	1.79
127352	B-412	12	BNC M-F right angle (DG-306B/O)	3.15	2.92	2.12
160929	B211F-58	13	BNC female, crimp type (RG58)	1.50	1.31	1.19
161922	B211F-174	13	BNC female, crimp type (RG174)	1.79	1.62	1.43
174290	TBC-090	14	BNC female chassis mount	1.43	1.18	1.06
174255	TBC-176	15	BNC male to F connector female	2.35	1.86	1.70
146511	CH-7044S	16	BNC female R/A plastic insulation	1.95	1.75	1.49
161656	CH-7087D	17	BNC female right-angle metal	2.45	2.11	1.90

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## BNC Adapters

EXCLUSIVE

Quantity SAVE

Part No.	Cross Ref. No.	Description	1	10	100
118594	200-155	Male to female/female T-adapter	\$2.87	\$2.58	\$2.10
72629	200-150	Female to female/female T-adapter	2.49	2.25	1.99
207087	BJ-7078	Female to male/female T-adapter	9.55	8.59	7.16
100597	40958-Y	Male to female/female T-adapter (180°)	5.99	5.39	4.85
207116	BJ-7082	Male to female/female/female T-adapter	7.19	6.45	5.79
117462	B-068	Male to female/female F-adapter (90°)	4.39	3.97	3.56
207168	BJ-7072	RCA female to BNC female	2.39	2.15	1.91
114789	BR312	RCA female to BNC male adapter	1.59	1.23	1.16
207175	BJ-7055	RCA male to BNC male	1.55	1.36	1.22
114753	RB312	RCA male to BNC female adapter	1.59	1.45	1.29
114770	200-108	BNC female to "F" connector male adapter	1.79	1.59	1.39
207142	BJ-7075	3.5mm mono male to BNC female	2.03	1.79	1.53
355128	31-208-RFX	50Ω BNC T-adapter, jack-plug-jack (UG-274A/U)	3.05	2.73	2.31
363961	31-218	50Ω BNC straight adapter, plug-plug (UG-491A/U)	7.69	5.49	4.12
355152	31-219-RFX	50Ω BNC straight adapter, jack-jack (UG-914/U)	2.65	2.44	2.20



Amphenol Connex

## BNC Connectors and Adapters 50Ω/75Ω

\* Crimp tools for these connectors below

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
295953	112116	1	A	50Ω straight crimp plug, captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	\$1.55	\$1.37	\$1.25
295970	112119	1	A	75Ω straight crimp plug, captive contact	RG-59/62/140/210	1.59	1.52	1.46
296016	112133	1	B	75Ω straight crimp plug, captive contact	RG-179/187/B9221	1.40	1.34	1.28
296631	112161	2	B	75Ω straight crimp jack	RG-179/187/B9221	1.85	1.76	1.68
658371	112202	3	A	50Ω bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	3.39	3.20	3.05
658401	112235	3	B	75Ω bulkhead crimp jack	RG-179/187/B9221	3.39	3.05	2.92
658478	112349	4	—	50Ω jack-to-jack bulkhead adapter, isolated	—	4.19	3.99	3.85
658427	112424	5	—	50Ω receptacle jack, solder terminal	All 50Ω coax cables	1.59	1.51	1.43
296067	112431	6	—	50Ω bulkhead rec. jack, isolated, solder term.	All 50Ω coax cables	2.99	2.89	2.72
658486	112443	7	—	50Ω jack-to-jack bulkhead adapter, isolated	All 50Ω coax cables	3.19	3.03	2.87
658507	112445	8	—	50Ω jack-to-jack adapter	All 50Ω coax cables	2.15	2.04	1.93
296083	112446	8	—	75Ω jack-to-jack adapter	All 75Ω coax cables	1.99	1.89	1.80
658515	112461	9	—	50Ω T-adapter, jack-plug-jack	All 50Ω coax cables	1.85	1.76	1.66
296091	112507	1	A	50Ω straight crimp plug	RG-59U 20AWG/B-91-8/B1515/B9104	1.49	1.47	1.33
295996	112512	1	B	50Ω straight crimp plug, captive contact	316/U double braided	2.05	2.01	1.47
296104	112514	1	A	50Ω straight crimp plug, captive contact	RG-55/142/223/400	1.49	1.45	1.39
296497	112526	10	A	50Ω BNC right angle crimp/solder plug	RG-55/142/223/400	4.35	4.19	3.94
296121	112565	1	—	75Ω BNC straight crimp plug, captive contact	RG-B1694A/B889248	1.55	1.48	1.40
295988	112597	11	—	50Ω BNC straight crimp plug, captive contact	RG-LMR200/B7807A	1.85	1.78	1.71
658540	202100	12	—	Male cap with chain	All BNC female connectors	1.89	1.80	1.78
658523	202103	13	—	50Ω terminator plug	All 50Ω coax cables	1.79	1.71	1.62
658531	202105	13	—	75Ω terminator plug	All 75Ω coax cables	2.15	2.06	1.97



Amphenol Connex

## MCX/MMCX Connectors 50Ω

\* Crimp tools for these connectors below

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
662522	252107	14	—	MCX straight solder plug, 0.085 semi-rigid	RG-405/U	\$3.45	\$3.30	\$3.15
662531	252115	15	A	MCX right angle crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	5.75	5.47	5.19
662514	252127	14	B	MCX straight crimp plug	RG-178/196	5.99	5.39	4.99
662549	252153	16	—	MCX straight plug, PCB	—	4.79	4.50	4.32

Amphenol Connex



## Universal Hand Crimp Tools

Amphenol Connex 47 series coax crimp tools utilize industry standard crimp die-set dimensions. Full ratchet crimp action assures complete crimp before release.



Part No.	Product No.	Crimp Tool	Die Cavities (in.)	Cable Groups	1	5
667850	47-10070	A	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400 (for BNC/TNC connectors)	\$59.99	\$57.99
667905	47-10150	B	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196 (for BNC/TNC connectors)	52.25	48.09
667913	47-10160	C	.151/.178/.213	.151 Hex 316/179/Double braid	57.05	56.05
667921	47-10180	J	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors (for BNC/TNC/N connectors)	45.65	42.75
667833	47-10000	—	—	Frame only	47.35	41.99

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## Amphenol Connex

## Type N Connectors 50Ω

\* Crimp tools for these connectors are on page 137

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296454	172100	R 1	J	Straight crimp plug captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	\$3.99	\$3.63	\$3.43
296471	172102H243	R 1	—	Straight crimp plug captive contact	RG-B9913/LMR400/B7810A/B8214	4.45	4.19	3.97
659251	172117	R 2	—	Panel receptacle jack	—	4.25	4.00	3.75
659260	172118	R 3	—	Panel receptacle jack, solder terminal	—	6.09	5.88	5.27
659286	172122	R 4	—	Plug-to-plug adapter	All 50Ω coax cables	6.75	6.15	5.61
659294	172123	R 5	—	Jack-to-jack adapter	All 50Ω coax cables	4.45	4.10	3.90
659307	172124	R 6	—	Bulkhead jack-to-jack adapter	—	6.05	5.80	5.54
659315	172126	R 7	—	Angled plug-to-jack adapter	—	7.69	7.45	7.26
659155	172139	R 1	—	Straight solder plug, 0.250 semi-rigid	0.250 semi-rigid	5.05	4.93	4.55
296577	172142	R 1	J	Straight crimp plug captive contact	RG-55/142/223/400	4.55	4.26	4.11
659243	172147	R 8	J	Straight crimp jack captive contact	RG-55/142/223/400	4.09	3.71	3.33
296585	172165	R 9	B	Bulkhead crimp jack captive contact	RG-316/U double braided	7.09	6.85	6.65
659139	172166	R 1	—	Straight crimp plug captive contact	RG-214/225	4.35	4.11	3.87
659121	172171	R 1	B/J	Straight crimp plug captive contact	RG-316/U double braided	6.19	5.58	4.96
659227	172175	R 10	J	Straight crimp panel jack captive contact	RG-55/142/223/400	7.99	7.25	6.52
296593	172178	R 11	A	Right angle crimp plug	RG-55/142/223/400	8.09	7.84	7.28
659323	202102	R 12	—	N male cap and chain, nickel plated	—	2.15	2.03	1.79

## Amphenol Connex

## TNC Connectors 50Ω/75Ω

\* Crimp tools for these connectors are on page 137

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
658671	122122	R 13	A	50Ω straight crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	\$2.05	\$1.79	\$1.64
658697	122332	R 14	—	50Ω bulkhead receptacle jack, solder trmnl	—	1.65	1.59	1.49
296163	122372	R 15	A	50Ω straight crimp plug	RG-55/142/223/400	1.47	1.41	1.35
658689	122373	R 14	A	50Ω straight crimp jack	RG-55/142/223/400	1.65	1.46	1.31
296219	122426	R 15	A	75Ω straight crimp plug	RG-59/U 20 AWG./B9108/B1515/B9104	1.85	1.79	1.76

## Amphenol Connex

## SMB Connectors 50Ω

\* Crimp tools for these connectors are on page 137

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296411	142176	R 16	C	Right angle cable plug	RG-316U double braided	\$5.15	\$4.87	\$4.63
296446	142194	R 16	B	Right angle cable plug	RG-174/188A/316/B7805A	5.05	4.68	4.29
659340	142220	R 17	A	Straight crimp plug	RG-55/142/223/400	5.19	4.71	4.23
296438	142255	R 17	A	Straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	4.59	4.38	4.17

## Amphenol Connex

## SMA Connectors 50Ω

\* Crimp tools for these connectors are on page 137

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296227	132101	R 18	—	Straight cable plug w/ contact, 0.085 semi-rigid	RG-405U	\$2.79	\$2.34	\$2.15
296235	132102	R 18	—	Straight cable plug w/ contact, 0.141 semi-rigid	RG-402U	2.79	2.65	2.52
658726	132108	R 19	—	Panel cable cable jack, 4-hole square flange, 0.141 semi-rigid	RG-402U/.141 semi-rigid	6.19	5.39	4.60
658734	132110	R 20	—	Panel mount cable jack, 2-hole flange, 0.141 semi-rigid	RG-402U/.141 semi-rigid	5.79	5.33	4.89
296331	132119	R 21	B	Bulkhead crimp jack	RG-174/188A/316/B7805A	5.29	4.53	4.15
296374	132134	R 22	—	Straight jack, PCB terminals	All 50Ω coax cables	3.89	3.69	3.57
658996	132136	R 23	—	Right angle jack, PCB	All 50Ω coax cables	6.89	6.49	6.12
659016	132137	R 24	—	Bulkhead jack receptacle, solder terminal	—	4.79	4.61	4.40
296382	132146	R 19	—	Panel mount jack receptacle, 4-hole square flange	—	6.49	6.36	5.93
659024	132147	R 25	—	Panel mount jack receptacle, 2-hole flange	—	6.09	5.80	5.51
659032	132168	R 26	—	Plug-to-plug adapter	All 50Ω coax cables	4.59	4.38	4.17
659041	132169	R 27	—	Jack-to-jack adapter	All 50Ω coax cables	4.05	3.85	3.68
659059	132170	R 28	—	Jack-to-jack adapter, bulkhead feedthrough	—	6.19	5.89	5.56
659067	132171	R 29	—	Plug-to-jack adapter	All 50Ω coax cables	4.85	4.64	4.41
659075	132172	R 30	—	Right angle plug-to-jack adapter	All 50Ω coax cables	6.79	6.25	5.79
296391	132178	R 31	C	Straight crimp plug	RG-316U double braided	3.35	3.19	3.05
658822	132182	R 32	C	Right angle crimp plug	RG-316U double braided	6.09	5.53	4.97
658857	132191	R 21	A	Bulkhead crimp jack	RG-55/142/223/400	4.49	4.38	4.19
658777	132193	R 31	B	Right angle crimp plug	RG-178/196	4.99	4.79	4.49
658793	132194	R 33	A	Right angle crimp plug	RG-55/142/223/400	6.05	5.50	4.95
658961	132198	R 34	C	Straight crimp jack	RG-316U double braided	4.19	4.05	3.87
658806	132235	R 33	A	Right angle crimp plug	LMR200/B7807A	5.69	4.86	4.46
658814	132239	R 33	A	Right angle crimp plug	LMR200/B7807A	7.65	7.39	6.99
658865	132241	R 21	A	Bulkhead crimp jack	RG-8X/LMR240/B7808A	4.55	3.89	3.55
658769	132298	R 33	—	Right angle crimp plug	B9913/LMR400/B7810A/B8214	6.35	6.07	5.83
659091	132360	R —	—	Terminator plug	—	2.45	2.23	2.00
659104	132361	R —	—	Terminator jack	—	2.39	2.30	2.20
659083	202112	R 35	—	Male cap	—	1.49	1.42	1.35

We carry major manufacturers – call or visit our website.

### 75Ω "F" Connectors, Adapters and Terminators

Part No.	Cross Ref. No.	Description	1	10	50	100
291531	200-028	Perma-seal, RG-6 coax	\$ .69	\$ .59	\$ .55	\$ .49
309657	200-045	RCA female to F male adapter	1.75	1.35	.97	.87
291725	200-051	F-jack to jack (gold)	1.14	1.02	.95	.90
295371	200-053	F-panel mount jack to jack (nickel)	.65	.55	.475	.38
295398	200-103	F-jack to push-on plug (nickel)	.85	.69	.63	.523
295380	200-107	F-R/A jack to plug (nickel)	2.09	1.78	1.52	1.23
295531	200-117	F-jack to 3.5mm mono plug (nickel)	1.65	1.35	1.13	.93

### SMA Connectors, Couplers and Adapters

- Application: cellular phone, data communication, instrumentation and video
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C
- 50Ω impedance
- Plating: gold and nickel

#### Connectors

Part No.	Cross Ref. No.	Description	Cable Type	Plated	1	10	50
157972	19-03F-4TGG	SMA 50Ω crimp type M plug connector	RG-58	Gold	\$4.55	\$4.04	\$3.64
153365	4804	SMA 50Ω crimp type M plug connector	RG-174	Gold	4.39	3.95	3.55
145382	19-46G	SMA straight F PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25
145373	19-49G	SMA 90° F PCB mount connector, 4 legs	—	Gold	7.39	6.65	5.32
153286	SMA-7813	SMA bulkhead solder F w/ washer, rear mount	RG-58/174	Gold	3.49	3.29	2.99
159530	CH-7814	SMA F panel mount conn., 4 mounting holes*	RG-58/174	Gold	2.95	2.65	2.35
160022	CH-7815-G	SMA F panel mount conn., 2 mounting holes*	RG-58/174	Gold	4.79	4.31	3.90
160013	CH-7818-N	Panel mount feed thru connector F – F	—	Nickel	4.99	4.49	3.99
355283	901-143-6RFX	50Ω SMA jack, right angle, PC mount	—	Gold	4.55	3.63	3.55
355304	901-9877-RFX	50Ω SMA plug, crimp (RG-174/U; RG-188A/U; RG-316/U cables)	Gold	2.55	2.21	1.80	

\*159530/160022: Solder cup      Blue Part No. = Limited Quantity Available

#### Couplers

Part No.	Cross Ref. No.	Description	Plated	1	10	50	100
153294	SMA-7817	SMA straight coupler female – jack-to-jack	Gold	\$3.85	\$3.39	\$2.19	\$1.79
161277	S-512-G	SMA 3-way coupler, 1 male – 2 female	Gold	3.49	3.15	2.85	2.55
161294	S-311-G	SMA straight coupler male – male	Gold	4.25	3.82	3.42	3.19
161307	S-412-G	SMA right angle coupler male – female	Gold	5.99	5.39	4.79	4.38

#### SMA to BNC Adapters

Part No.	Cross Ref. No.	Description	Plated	1	10	50	100
153453	SB-321	SMA female to BNC male adapter	Nickel	\$2.59	\$2.29	\$2.09	\$1.89
159469	CH-7830-N	SMA female to BNC female adapter	Nickel	3.09	2.82	2.52	2.29
153593	4288	SMA male to BNC male adapter	Nickel	4.55	4.09	3.65	3.29
159477	CH-7820-N	SMA male to BNC female adapter	Nickel	2.99	2.69	2.45	2.19

### SMA/SMB 50Ω Coax Cables

Fig. 1: SMA male to SMA male  
 Fig. 2: SMA male to SMA right angle male  
 Fig. 3: SMA right angle male to SMA right angle male  
 Fig. 4: SMB plug to SMB plug

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370	RG-58	1	2	\$5.39	\$4.58	\$3.44
159397	RG-58	1	6	6.59	5.87	5.03
169801	RG-174	1	0.5	5.59	4.99	4.55
163855	RG-174	1	1	4.65	4.07	3.50
153382	RG-174	1	2	4.95	4.29	3.39
153391	RG-174	1	4	5.89	5.08	4.59

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159451	RG-174	1	6	\$7.95	\$7.20	\$6.49
175127	RG-174	2	0.5	4.49	3.95	3.49
175135	RG-174	2	1	4.95	4.25	3.75
175143	RG-174	3	0.5	6.15	5.62	4.80
175152	RG-174	3	1	6.25	5.75	4.75
175178	RG-174	4	1	5.29	4.79	3.95

### BNC Male Coax Cables

Part No.	Description	1	10	50	100
176794	3' BNC to BNC	\$3.95	\$3.55	\$3.19	\$2.89

### RG58/U 50Ω Cables

• For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
181308	CRG58-1RR	1	\$3.65	\$3.29	\$2.95	\$2.75
102315	CRG58-1	1.5	3.99	3.39	2.87	2.15
256743	CBB-224-24	2	4.98	4.43	3.99	3.59
11404	CRG58-3	3	4.75	4.32	3.87	3.50
102331	CRG58-6	6	4.39	3.99	3.59	3.19
180822	CRG58-10	10	5.85	5.19	4.16	3.12
102350	CRG58-12	12	4.95	4.49	3.99	3.39
169818	CRG58-15	15	7.15	6.44	5.60	5.21
102381	CRG58-100	100	16.19	14.57	11.66	8.74

### Other Manufacturers

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
102357	CRG58-25	25	\$7.79	\$7.01	\$6.32	\$5.70
102365	CRG58-50	50	13.29	11.19	10.15	9.39

### RG59/U 75Ω Cables

• For CATV and video patch cords

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
86471	CRG59-1	1.5	\$3.95	\$3.61	\$3.38	\$2.59
85543	CRG59-6	6	5.89	5.31	4.77	3.58
102373	CRG59-12	12	5.99	5.40	4.85	4.35
262730	EBC-525	25	9.95	8.96	7.17	5.38
262748	EBC-550	50	17.05	16.25	15.45	14.69
262764	EBC-510	100	30.39	27.35	21.88	16.41

### RG174/U 50Ω Cables

• For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
111473	RG174U3	3	\$5.45	\$4.93	\$4.45	\$4.03
111481	RG174U6	6	5.95	5.60	5.06	4.52

### SMB Connectors

• For use with RG-174 coax  
 • 50Ω crimp type • Gold plated  
 • Use with crimping tool P/N 114535, pg 227

Part No.	Description	1	10	50
172364	Bulkhead crimp jack	\$3.49	\$2.95	\$2.49
172372	Cable crimp plug	4.35	3.94	3.53

### SMB PCB Connector

• 0-4GHz electrical performance  
 • Contact: beryllium copper  
 • Gold plated brass • Insulation: teflon

Part No.	Description	1	10	50
167312	Right angle PCB	\$4.45	\$3.89	\$3.25

More Connectors at [www.Jameco.com](http://www.Jameco.com)

RoHS compliant product      This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.      Details on page 1.

## Cinch Double Row Barrier Blocks

- Voltage rating: 250VAC<sub>RMS</sub> max.
- Eyelet material: brass with nickel plating
- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel w/ nickel over copper flash plating
- Solder terminal material: brass w/ electro-tin plating



231378

### 140 Series 15A

**NEW**

- 3750-watts/terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16" • Density: 0.375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973	2-140	2	1.41" ....	\$ .99	\$ .89	\$ .74
230981	3-140	3	1.78" ....	1.33	1.19	1.10
230990	4-140	4	2.16" ....	1.45	1.29	1.05
231010	6-140	6	2.91" ....	1.99	1.79	1.48
231028	7-140	7	3.28" ....	2.19	1.95	1.59
231036	8-140	8	3.66" ....	2.49	2.24	1.83
231052	10-140	10	4.41" ....	3.35	2.91	2.64
231061	12-140	12	5.16" ....	3.55	3.15	2.59
1775983	14-140	14	5.91" ....	5.09	4.56	4.03

### Marker Strips

441033	MS-6-140	6	.....	\$ .72	\$ .63	\$ .56
441050	MS-8-140	8	.....	.75	.715	.651
440962	MS-10-140	10	.....	.99	.875	.757

### 141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max. • Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" • Density: 0.438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231378	4-141	4	2.50" ..	\$1.79	\$1.59	\$1.25
231394	6-141	6	3.38" ....	2.34	2.01	1.71
231415	8-141	8	4.25" ....	2.89	2.34	2.27
231431	10-141	10	5.13" ....	3.35	2.70	2.62
231440	12-141	12	6.00" ....	3.59	3.29	2.46

### Marker Strips

448139	MS-6-141	6	.....	\$ .75	\$ .65	\$ .586
448104	MS-8-141	8	.....	.79	.726	.694

### 142 Series 30A

- 7500-watts/terminal max.
- 10 AWG wire max. • Size: 1.312"W x 0.625"H
- Screw: 8-32 x 5/16" • Density: 0.563"

Part No.	Prod. No.	Pos.	Length	1	10	100
440840	3-142	3	2.656" ..	\$1.99	\$1.84	\$1.59
440891	8-142	8	5.468" ...	5.55	5.32	4.73

### Double Row, Y-terminals

1775991	5-142Y	5	3.781" ..	\$3.99	\$3.59	\$2.86
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### Marker Strips

448112	MS-4-142	4	.....	\$ .75	\$ .65	\$ .55
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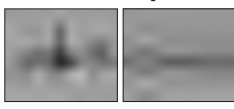
For more Cinch Barrier Blocks visit [www.Jameco.com](http://www.Jameco.com)

## Cinch Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.




**NEW**

- 2-position
- Brass with nickel plating



659382

448500/448518

Part No.	Product No.	1	25	50
659382	140J-1(140 series) 	.....\$ .25	\$ .236	\$ .196
448500	141J (141 series) 	.....28	.248	.238
448518	95B (142 series) 	.....85	.79	.73

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Terminal Blocks and Header



For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)

- 164814: Male header (.197") for use with 164794 and 164806



Fig. 1 (99398)

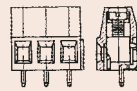


Fig. 2 (160785)

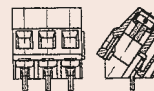


Fig. 3 (161067)



Fig. 4 (189676)



Fig. 5 (164794)



Fig. 6 (164806)



Fig. 7 (249084)

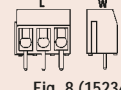


Fig. 8 (152347)



Fig. 9 (164814) use w/ Fig. 5 & 6

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
99427	Dinkle	DT128/2	1	2	0.197"/5mm	\$.80	\$.61	\$.49	\$.44
99398	Dinkle	DT128V3P	1	3	0.197"/5mm	.99	.89	.79	.59
160785	Dinkle	EK500V-02P	2	2	0.197"/5mm	.65	.55	.45	.39
160793	Dinkle	EK500V-03P	2	3	0.197"/5mm	.99	.91	.80	.74
161067	Dinkle	EK500A-02P	3	2	0.197"/5mm	.85	.74	.55	.44
161059	Dinkle	EK500A-03P	3	3	0.197"/5mm	1.14	1.02	.87	.82
189676	OST	EDC500/2DS	4	2	0.197"/5mm	.79	.71	.64	.58
189668	OST	EDC500/3DS	4	3	0.197"/5mm	.89	.80	.72	.61
164794	OST	EDC130/2DS	5	2	0.197"/5mm	.59	.53	.47	.42
164806	OST	EDC130/3DS	6	3	0.197"/5mm	.99	.90	.81	.61
249084	OST	EDZ750/3	7	3	0.200"/5.08mm	2.09	1.91	1.69	1.59
152347	OST	EDC120/2DS	8	2	0.200"/5.08mm	.65	.55	.45	.39
152355	OST	EDC120/3DS	8	3	0.200"/5.08mm	.47	.44	.39	.31
164814	OST	EDSTL130/24	9	24	0.197"/5mm	2.63	2.37	2.16	1.64

## Cinch

### Lug Type Terminal Strip

- Insulation material: UL94 rated HB, chocolate
- Contact material: steel
- Contact plating: cadmium
- Mounting hole: 0.140" (3.56mm) Dia.
- Strip dimension: 0.0625"Th. x 0.375"L
- Lug density: 0.375"

**NEW**



Part No.	Product No.	Positions	1	25	50
445211♠	52A	3 .....	\$ .85	\$ .75	\$ .65

## Cinch

### Plug Buttons

- Nickel plated steel
- Spring tension prongs



448622

Part No.	Prod. No.	Hole Dia.	Cup Dia.	1	25
448622	41B	0.375"	0.500" .....	\$ .84	\$ .67
448606	41V	1.00"	1.156" .....	4.05	3.30



## BEAU Terminal Blocks

- 0.375" double row
- Current rating: UL rated 15A @ 300V, #14AWG
- Wire AWG range: 12-24AWG
- Insulation resistance: >5000MΩ
- Terminal: brass, nickel plated
- Dielectric withstanding voltage: 7500VDC
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate

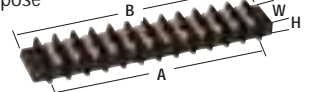


659438

Part No.	Product No.	Beau No.	Pos.	1	25	50	
659391	38770-0102	77002	2	...	\$ .74	\$ .65	\$ .60
659411	38770-0104	77004	4	....	.98	.89	.85
659438	38770-0106	77006	6	...	1.69	1.43	1.41
659454	38770-0108	77008	8	...	1.89	1.71	1.66
659489	38770-0112	77012	12	...	2.45	2.33	2.28
659497	38770-0114	77014	14	...	2.99	2.76	2.20
659526	38770-0118	77018	18	...	4.65	4.51	3.59

## KULKA® 601 GP Series Double Row Terminal Block

- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated
- Width (W): 1.12"
- .437" (11mm) centers
- Height (H): .50"
- 1100V<sub>RMS</sub>; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved



Part No.	Prod. No.	Poles	Dimensions A" B" W"	1	10	50
188701	601GP12	12	5.69 6.00	\$6.29	\$5.77	\$4.47



## European Terminal Blocks



- Number of poles: 12
- 1.2mm raised base
- Voltage: 600V
- Working temp.: 230°F (110°C)
- Terminal insert: brass metal alloy, nickel plated
- Material: Polyamide 66 (nylon 66), UL94V-2, natural
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed



215011

Part No.	Cross Ref.	Amps	AWG	1	10	100
215011	PA8H	20A	12-22 .....	\$1.79	\$1.59	\$1.29
215029	PA10H	30A	10-22 .....	2.45	2.19	1.81
215037	PA12H	35A	10-22 .....	2.85	2.50	2.17

Crimping Tools on page 227

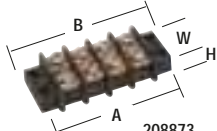


## Metric Double Row Terminal Blocks

- Body material: black thermoplastic (UL94V-0)
- 12-18 AWG
- Terminals: brass tin plated
- Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
- Insulation resistance: 1000MΩ or more at 500VDC

### 10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm



Part Number	Cross Ref. No.	Poles	Dimensions A"	B"	1	10	50
208873	GGE-10-8P	8	95	102.5	\$1.69	\$1.59	\$1.49
208882	GGE-10-12P	12	123.5	131	2.79	2.49	2.25

### 20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm



Part Number	Cross Ref. No.	Poles	Dimensions A"	B"	1	10	50
207547	GGE-20-6P	6	76.3	85.3	\$1.99	\$1.79	\$1.59
207563	GGE-20-10P	10	119.9	128.9	3.29	2.99	2.69
207572	GGE-20-12P	12	141.7	150.7	3.59	3.19	2.79

More Terminal Blocks available at [www.Jameco.com](http://www.Jameco.com)

Visit our website today!



## DIN Rail-Mounted Terminal Block & DIN Rail

Foot snaps onto standard DIN and DIN 2 rails.

- 14-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



Part No.	Product No.	Type	1	10	100
237083	41296.2	SR2.5	\$ .89	\$ .79	\$ .69
248736	2094.0	TS35 x 7.5	7.15	5.72	4.31

## 171-Pc. Solderless Terminal Kit

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	-
15	Ring term.	16-14	#6	10	Butt conn.	16-14	-
10	Ring term.	16-14	#8	5	Butt conn.	12-10	-

170 Terminals and Connectors!

- Clear, hinged plastic box
- Use crimping tool P/N T2996, right

NEW



Part No.	Description	1	10	25
10990	Terminal kit	\$8.95	\$7.95	\$7.25

For more AMP Insulated Terminals visit [www.Jameco.com](http://www.Jameco.com)

## Telecom Splice Connectors

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes

169755: Y-type

- Minimum order 10 pieces



Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169747	Yellow	22-26	2	\$.124	\$.112	\$.103
169755	Red	19-26	3Y	.165	.157	.137

## Wire Connectors

- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Twist on type
- Strip wire before application
- 140717: PE - metal inside
- 182449: nylon 66, 94-2 UL/CSA approved

- Minimum order 10 pieces

Part No.	Description	10	100	1000
182449	Crimp 16-14 AWG	\$.075	\$.066	\$.05
140717	Wire IDC 22-18 AWG	.15	.14	.10

\* Requires crimping tool (P/N T2996, below)



## Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Product No.	1	10	25
72996	HT303	\$22.19	\$18.85	\$14.13



## P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals

Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with a copper sleeve fitted over the terminal barrel to provide maximum insulation support.

- Temperature rating: 105°C
- Funnel ramp entry
- Meets MIL-T-7928

### Ring Tongue Terminals

Part No.	Product No.	Stud Size	Wire (AWG)	Color	* Minimum order 10 pieces	1	10	100
302615	323915	#6	26-22	Yellow	\$.24	\$.235	\$.21	
302666	36152	#6	22-16	Red	.24	.174	.16	
527312	51863	#6	22-16	Red	*	.218	.205	
302674	31890	#8	22-16	Red	.21	.159	.141	
527275	36153	#10	22-16	Red	.20	.118	.108	
302738	320565	#8	16-14	Blue	.23	.167	.153	
302818	35110	1/4"	12-10	Yellow	.40	.39	.26	
841942	31886	#8	22-16	Red	*	.155	.147	
841977	31887	#10	22-16	Red	*	.174	.162	
847092	35107	#6	12-10	Yellow	*	.18	.162	
847341	35273	1/4"	12-10	Yellow	.66	.426	.406	
847375	35345	1/4"	12-10	Yellow	*	.437	.388	
847498	35787	#8	12-10	Yellow	*	.197	.183	
847527	36150	#6	22-16	Red	*	.138	.123	
847543	36151	#6	22-16	Red	*	.107	.095	
847560	36158	#6	16-14	Blue	*	.156	.135	
850443	51864	#6	16-14	Blue	*	.135	.124	
850953	53073	#6	26-24	Yellow	*	.243	.21	
842056	320553	#4	22-16	Red	*	.135	.124	
842081	320554	#8	22-16	Red	*	.156	.135	
842110	320560	#8	16-14	Blue	*	.165	.157	
842144	320561	#6	16-14	Blue	*	.135	.123	
842179	320563	1/4"	16-14	Blue	*	.156	.145	
842224	320567	#6	12-10	Yellow	.65	.40	.381	

\* This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

### Ring Tongue Terminals (Continued)

Part No.	Product No.	Stud Size	Wire (AWG)	Color	* Minimum order 10 pieces	1	10	100
842259	320569	1/4"	12-10	Yellow	*	\$.199	\$.188	
842283	320571	1/4"	22-16	Red	*	.155	.144	
842304	320573	3/8"	22-16	Red	*	.176	.17	
842339	320574	#10	16-14	Blue	*	.135	.119	
842363	320576	5/16"	12-10	Yellow	*	.77	.74	
842398	320577	3/8"	12-10	Yellow	*	.199	.188	
842427	320634	#6	12-10	Yellow	*	.197	.184	
843008	324159	#4	16-14	Blue	*	.182	.157	
843091	324918	#10	12-10	Yellow	*	.246	.231	
843139	326875	#6	26-22	Yellow	*	.138	.123	
843163	326878	#6	22-16	Red	*	.156	.135	
843198	326882	#6	16-14	Blue	*	.156	.135	
843382	328975	1/2"	22-16	Red	*	.68	.61	
749353	2-320568	#8	12	Yellow	*	.64	.59	
836748	2-36153-3	#10	22-16	Red	*	.279	.26	
836764	2-36153-4	#10	22-16	Red	*	.279	.26	
836844	2-36161-3	#10	12	Yellow	*	.55	.529	
850380	51863-3	#6	22-16	Red	*	.21	.191	
850507	51864-7	#10	16-14	Blue	*	.26	.235	
851083	53405-1	#4	22-16	Natural	*	.66	.59	
851112	53407-1	#6	22-16	Natural	*	.45	.404	
851147	53408-1	#8	22-16	Natural	*	.29	.265	
851171	53418-1	#10	16-14	Natural	*	.459	.40	
852027	53941-1	#8	16-14	Blue	*	.238	.20	



## AMP P.I.D.G. Insulated Terminals (Continued)



## Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302851	328394R	1	#2	22-16	Red	.21	\$.208	\$.185
302869	327717R	1	#4	22-16	Red	.31	.299	.266
302877	34541R	1	#6	22-16	Red	.24	.173	.158
302885	32053R	1	#8	22-16	Red	.31	.29	.26
302906	35559R	1	#6	16-14	Blue	.26	.25	.194
302914	32059R	1	#8	16-14	Blue	.23	.199	.15
302922	321233R	1	#8	16-14	Blue	.29	.284	.252
302949	326859R	1	#6	12-10	Yellow	.51	.429	.322

## Flanged Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
842865	322777R	2	#6	22-16	Red	*	\$.158	\$.148

## Short Spring Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	25
850865	52924R	3	#6	22-16	Yellow	*	\$.288	\$.269
303141	52942R	3	#8	12-10	Yellow	2.19	2.13	1.99

## Butt &amp; Knife Disconnect Splices

Part No.	Product No.	Fig.	Description	Wire (AWG)	Color	1	10	100
303175	320559R	4	Butt	22-16	Red	\$.41	\$.396	\$.382
303183	320562R	4	Butt	16-14	Blue	.45	.43	.41
303191	320570R	4	Butt	12-10	Yellow	.67	.65	.63

## Fast-On Receptacles

Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	10	100
303247	640923-1R	5	.110 x .020	22-18	Red	\$.22	\$.208	\$.196
303255	640917-1R	5	.187 x .020	22-18	Red	.22	.178	.173
303280	640903-1R	5	.250 x .032	22-18	Red	.22	.16	.13
303327	640905-1R	5	.250 x .032	16-14	Blue	.23	.183	.181
303343	640907-1R	5	.250 x .032	12-10	Yellow	.29	.273	.191

## AMP Fast-On Insulated Terminals

- One-piece fully insulated fast-on receptacle/tab with insulation crimp prevents shock and short hazards
- Designed for full mating with a variety of tabs and receptacles including those with shoulders
- Funnel wire entry and wire stop
- Assemblies contain wire size and tab size designation as well as color-coded for wire gauge designation



## Ultra-Fast Fully Insulated Receptacle Assembly (0.110"/0.125")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
837011	2-520273-2R	0.239"	22-18	Red	Brass, tin-plated	\$.155	\$.147

## Ultra-Fast Fully Insulated Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
524197	2-520182-2R	0.300"	22-18	Red	Brass, tin-plated	\$.137	\$.126
526820	3-350816-2R	0.300"	16-14	Blue	Brass, tin-plated	.131	.113
837118	2-520409-2R	0.300"	22-18	Red	Brass, tin-plated	.194	.186
837134	2-520411-2R	0.300"	22-18	Red	Brass, tin-plated	.175	.162
841344	3-520125-2R	0.300"	16-14	Blue	Brass, tin-plated	.136	.122
841432	3-520151-2R	0.300"	16-14	Blue	Brass, tin-plated	.155	.147
841539	3-520412-2R	0.300"	16-14	Blue	Brass, tin-plated	.194	.186

## Ultra-Fast Fully Insulated Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
836959	2-520184-4R	0.373"	22-18	Red	Bronze, tin-plated	\$.213	\$.206
841264	3-520117-2R	0.373"	16-14	Blue	Bronze, tin-plated	.194	.186

## Ultra-Fast Fully Insulated Flag Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
837062	2-520337-2R	0.300"	22-18	Red	Brass, tin-plated	\$.233	\$.216

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## AMP Fast-On Insulated Terminals (Continued)

## Ultra-Fast Fully Insulated Flag Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
836924	2-520129-2R	0.373"	22-18	Red	Brass, tin-plated	\$.223	\$.206
841408	3-520133-2R	0.373"	16-14	Blue	Brass, tin-plated	.233	.206

## Ultra-Fast Fully Insulated Tab Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
524120	2-520103-2R	0.487"	22-18	Red	Brass, tin-plated	\$.19	\$.171
524146	3-520107-2R	0.487"	16-14	Blue	Brass, tin-plated	.173	.163

## Fast-On Fully Insulated Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
966059	641321R	0.230"	26-24	Yellow	Brass	\$.198	\$.178

## Fast-On Uninsulated Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	1	10
848642	41729R	0.373"	18-16	-	Brass, tin-plated	\$.107	\$.098

## AMP

## Fast-On PCB Tab

- Stock thickness: 0.032"
- Board hole size: 0.055" dia.
- Tin plated brass

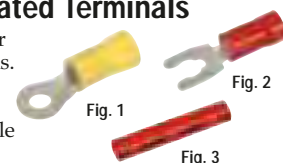
NEW

\* Minimum order 5 pieces

Part No.	Product No.	Description	1	5	50
853927	63824-1R	0.250" tab (PCB)	*	\$.036	\$.032

## AMP Plastic-Grip Insulated Terminals

Designed specifically to answer the need for inexpensive insulated electrical terminations. The wire and the terminal barrel form a homogeneous mass of metal, providing a connection of maximum conductivity, tensile strength and high resistance to corrosion.



## Ring Tongue Terminals (Fig. 1)

Part No.	Product No.	Stud Size	AWG	Color	1	5	50
844684	34141R	#4	22-16	Red	*	\$.16	\$.15
844705	34142R	#6	22-16	Red	*	.16	.137
844748	34144R	#6	22-16	Red	*	.155	.147
844772	34145R	#8	22-16	Red	*	.118	.11
844828	34148R	#8	22-16	Red	*	.107	.098
844801	34146R	#10	22-16	Red	*	.157	.147
844852	34149R	#10	22-16	Red	*	.145	.137
844879	34150R	1/4"	22-16	Red	*	.155	.167
844908	34158R	#6	16-14	Blue	*	.155	.147
844932	34159R	#6	16-14	Blue	*	.149	.142
844967	34160R	#8	16-14	Blue	*	.116	.108
843307	328527R	#8	16-14	Blue	*	.15	.142
844991	34161R	#10	16-14	Blue	*	.151	.144
845011	34162R	1/4"	16-14	Blue	*	.113	.107
845142	34852R	#8	12-10	Yellow	*	.27	.255
845177	34853R	#8	12-10	Yellow	*	.281	.255
845206	34854R	#10	12-10	Yellow	*	.27	.255
845231	34855R	1/4"	12-10	Yellow	*	.33	.284
850638	52041-1R	1/4"	8	Red	*	.78	.72
850806	52263-1R	#10	8	Red	*	.95	.91

## Short Spring Spade (Fig. 2)

Part No.	Product No.	Stud Size	AWG	Color	1	5	50
850929	5294-9R	#6	22-16	Red	*	\$.175	\$.167

## Butt Splices (Fig. 3)

Part No.	Product No.	AWG	Dimensions	1	10	100
844060	34067R	22-16	1.065"L, 0.08-0.12" ID	*	\$.30	\$.269
844174	34072R	12-10	1.160"L, 0.15-0.25" ID	*	.185	.176
844107	34070R	22-16	1.076"L, 0.105-0.140" ID	*	.135	.127
844140	34071R	16-14	1.065"L, 0.115-0.170" ID	*	.116	.108
845038	34243R	22-16	1.030"L, 0.17" ID	*	.204	.186

**AMP Solistrand Uninsulated Terminals**

Designed to terminate solid and stranded wire, irregular shaped conductors, and combinations of these – still retaining the superior performance and characteristics of single purpose terminals and splices.

Corrosion resistant, vibration resistant and tensile strength of these terminals and splices are well within the limits of commercial military applications.

**Ring Tongue Terminals (Fig. 1)**

\* Minimum order 5 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
844220	34104R	#4	22-16	107	134	1088
844289	34107R	#6	22-16	151	134	1088
844318	34108R	#8	22-16	107	1088	
844377	34111R	#8	22-16	107	1088	
844406	34112R	#10	22-16	155	138	1088
844342	34109R	#10	22-16	107	1088	
844422	34113R	1/4"	22-16	126	108	1088
844457	34115R	3/8"	22-16	136	127	1088
847404	35476R	#6	12-10	301	274	1088
843462	32994R	#8	12-10	291	265	1088
843665	33457R	#10	12-10	136	127	1088
843690	33458R	1/4"	12-10	34	304	1088
843631	33220R	3/8"	12-10	349	314	1088
751437	322242R	3/8"	12-10	73	70	66
843737	33459R	5/16"	12-10	349	314	1088
844481	34120R	#6	16-14	107	1088	
844537	34123R	#10	16-14	107	1088	
844570	34124R	1/4"	16-14	116	108	1088
844254	34105R	#6	8	107	1088	
842970	324061R	#8	8	62	56	49
841862	31807R	#10	8	78	75	71
843753	33460R	#10	8	75	72	69
843788	33461R	1/4"	8	252	245	1088
847316	35247R	1/4"	8	378	357	1088
843841	33463R	3/8"	8	456	421	1088
843876	33464R	#10	6	89	81	72
850751	52197R	#10	6	113	103	97
842486	321298R	#10	6	353	349	1088
843905	33465R	1/4"	6	301	284	1088
842531	321598R	1/4"	6	56	36	34
843956	33467R	3/8"	6	407	378	1088
843921	33466R	5/16"	6	378	363	1088
843606	33114R	#10	4	79	68	64
751314	31811R	1/4"	4	78	51	48
843981	33469R	1/4"	4	115	109	97
844043	33471R	3/8"	4	67	62	58
842726	321878R	3/8"	4	438	406	380
844019	33470R	5/16"	4	63	57	53
751656	327175R	1/2"	4	275	246	221
924810	321880R	1/2"	4	656	612	574
842021	320383R	1/4"	2	106	98	89
752157	35184R	3/8"	2	185	177	157
942989	36923R	3/8"	2	589	543	507
842558	321600R	3/8"	2	108	99	90
842662	321871R	3/8"	2	318	297	278
942428	35183R	5/16"	2	399	377	339
842890	322870R	5/16"	2	93	85	80
847666	36925R	1/2"	2	225	179	163
842574	321866R	1/4"	1	258	235	220
847607	36917R	3/8"	1	159	147	135
842638	321868R	3/8"	1	258	235	220
842603	321867R	5/16"	1	258	235	220
847631	36919R	1/2"	1	258	235	220

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

**AMP Solistrand Uninsulated Terminals (Cont.)****Spade Tongue Terminal (Fig. 2)**

\* Minimum order 5 pieces

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
842929	323127R	#6	22-16	107	1088	

**Splices Terminals (Fig. 3)**

Part No.	Product No.	Wire (AWG)	Size	1	5	100
841889	31818R	22-16	0.578"L x 0.141"Dia., 0.061" ID	298	241	1088
841918	31819R	16-14	0.567"L x 0.165"Dia., 0.085" ID	126	118	1088
842515	32151R	12-10	0.565"L x 0.165"Dia., 0.129" ID	155	147	1088
844609	34130R	22-16	0.301"L x 0.141"Dia., 0.061" ID	107	1088	
844633	34137R	16-14	0.301"L x 0.165"Dia., 0.085" ID	109	1088	
844668	34138R	12-10	0.343"L x 0.226"Dia., 0.129" ID	101	1094	1088
845062	34318R	8	0.375"L x 0.296"Dia., 0.172" ID	33	292	1088
845097	34319R	6	0.437"L x 0.369"Dia., 0.232" ID	307	276	1088
845126	34320R	4	0.531"L x 0.463"Dia., 0.296" ID	73	70	62
847156	35187R	2	0.640"L x 0.539"Dia., 0.370" ID	122	115	108
752237	36946R	1	0.734"L x 0.613"Dia., 0.440" ID	185	173	154

**AMP Strato-Therm/Diamond Grip Terminals**

These insulated & uninsulated terminals are high-temperature circuit hardware. You'll find solutions to other more familiar circuit problems such as vibration, corrosion and flash-over, when they occur at high temperatures. Available in temperature ranges of up to 1200°F (649°C). Accommodates solid or stranded conductors.

**Insulated Ring Tongue Terminals (Fig. 1)**

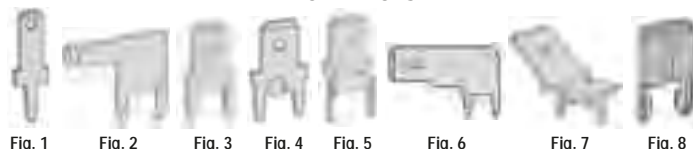
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Part No.	Product No.	Stud Size	Wire (AWG)	Color	1	10	100
924879	321898R	#10	22-16	Orange	1.99	1.89	1.79
842831	322338R	#10	16-14	Orange	2.19	1.99	1.89
842945	323749R	#8	12-10	Orange	2.79	2.61	2.44
1404710	323751R	1/4"	12-10	Orange	6.39	5.76	5.18

★ Please call or visit our website for minimum order and pricing

**Uninsulated Ring Tongue Terminals (Fig. 2)**

Part No.	Product No.	Stud Size	Wire (AWG)	1	5	100
751517	323165R	#10	8	94	90	86

**KEYSTONE Terminals****PC Quick-Fit, Male**

• Material: brass, tin plated

• Minimum order 10 pieces

Part No.	Product No.	Fig.	Thick	Description	10	50
1581679	1211R	1	32μ	.110" straight solder	091	078
1581716	1267R	1	20μ	.110" straight solder	036	034
1581935	4906R	2	32μ	.110" right angle solder	173	156
1581687	1212R	3	32μ	.187" straight solder	062	058
1581724	1285R	3	20μ	.187" straight solder	036	034
1582372	1285-ST	4	20μ	.187" straight solder	085	051
1581919	4900R	5	20μ	.187" straight solder	111	10
1581927	4904R	2	20μ	.187" right angle solder	084	079
1581708	1266R	6	32μ	.250" right angle solder	11	10
1581732	1287R	3	32μ	.250" straight solder	038	036
1582381	1287-ST	4	32μ	.250" straight solder	098	081
1581741	1289R	3	32μ	.250" straight solder	099	089
1581943	4908R	7	32μ	.250" 30° solder	22	20
1581978	4966R	2	32μ	.250" right angle solder	089	083

**PC Quick-Fit, Female**

• Material: 16μ brass, tin nickel plated • Accepts: .250" x 32μ male tab

• Minimum order 5 pieces

Part No.	Product No.	Fig.	Thick	Description	5	50
1581847	3528R	8	16μ	.250" vertical solder	102	095

Color Code Legend

New Sale Lower\$ QtySave

## KEYSTONE

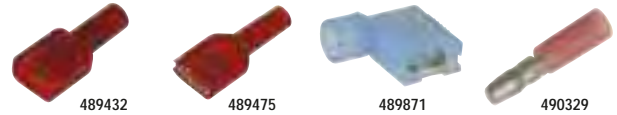
### Screw Terminals

- Material: brass, tin plated • Rated 15A
- Screw: 6 - 32 x .250", brass, nickel plated
- Accepts: 14-20 AWG wire

Part No.	Product No.	Thick	Description	1	10	50
1581695	1248	—	PC Mt, off-set solder, captivated	.31	\$ .281	\$ .253
1582241	7690	32µ	Snap-in, horizontal, unassembled	.32	.285	.256
1582250	7693	32µ	Snap-in, vertical, captivated	.35	.276	.257
1582268	8189	32µ	PC Mt, 45°, unassembled	.26	.276	.255
1582276	8190	32µ	PC Mt, horizontal, unassembled	.32	.288	.226
1582284	8191	32µ	PC Mt, vertical, unassembled	.22	.228	.206
1582292	9189	32µ	Snap-in, vertical, unassembled	.69	.64	.60



## Avikrimp® Solderless Terminals



The Avikrimp® version of the fully insulated quick disconnects gives you the extra advantage of the secure metal support sleeve. These parts fulfill the double crimp (support) requirements of VDE and other DIN specifications.

### Male Quick Disconnect

Prepackaged: please order in increments of 100

Part No.	Product No.	AWG/Color	Length	Tab Size (in.)	10	100	500
489432	19001-0003-C	18-22/Red	0.900"	0.187 x 0.020	\$.225	\$.214	\$.203

### Female Quick Disconnect

Part No.	Product No.	AWG/Color	Length	Tab Size (in.)	10	100	500
489475	19002-0001-C	18-22/Red	0.890"	0.250 x 0.032	\$.207	\$.168	\$.148

### Fully Insulated Flag Quick Disconnects

Part No.	Product No.	AWG/Color	Width	Tab Size (in.)	10	100	500
489871	19007-0021-C	14-16/Blue	0.390"	.250 x 0.032	\$.153	\$.146	\$.138
489897	19007-0040-C	10-12/Yellow	0.390"	.250 x 0.032	.265	.236	.216

### Plugs

- Material: copper • Thickness: 0.032" max.
- 0.145" max. wire insulation

Part No.	Product No.	AWG/Color	Barrel Length	Max. Diam.	Max. Length	10	100	500
490329	19036-0003-C	18-22/Red	0.254"	0.156"	0.897"	\$.287	\$.227	\$.198

### Spade Terminals

- Material: copper • Nylon insulation
- Blue Part No. = Limited Quantity Available

Part No.	Product No.	AWG/Color	Stud Size	Width (in.)	10	100	500
501673	19115-0012-C	18-22/Red	8	0.320	\$.237	\$.178	\$.168
501711	19115-0020-C	14-16/Blue	10	0.338	.136	.126	.116
501817	19115-0079-C	14-16/Blue	8	0.320	.297	.236	.197
501753	19115-0035-C	10-12/Yellow	8	0.330	.291	.232	.194



## Insulkrimp® Solderless Terminals



- Designed for dense packaging requirements; the profile height is lower than other competing products on the market
- Translucent "see-through" insulator provides fast, on-line quality control inspection by allowing a quick visual check of the wire/terminal assembly
- Terminal's funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold back
- A wire stop stamped into the crimp barrel prevents insertion of over-stripped wires

### Female Quick Disconnect

- Material: brass • PVC insulation
- Prepackaged: please order in increments of 10

Part No.	Product No.	AWG/Color	Tab Size (in.)	10	100	500
489627	19003-0001-C	18-22/Red	0.250 x 0.032	\$.178	\$.138	\$.128
489635	19003-0011-C	18-22/Red	0.187 x 0.020	.178	.138	.128
489643	19003-0017-C	18-22/Red	0.187 x 0.032	.132	.126	.104
489651	19003-0024-C	18-22/Red	0.110 x 0.020	.118	.108	.098
489678	19003-0040-C	14-16/Blue	0.250 x 0.032	.12	.105	.092
489694	19003-0050-C	14-16/Blue	0.187 x 0.020	.217	.168	.158

### Ring Tongue

- Material: copper • PVC insulation

Part No.	Product No.	AWG/Color	Stud Size	Width (in.)	10	100	500
490741	19070-0075-C	14-16/Blue	1/4	1.062	\$.178	\$.138	\$.128

### Butt-Splice

- Material: copper • PVC insulation

Part No.	Product No.	AWG/Color	Length (in.)	10	100	500
503062	19154-0004-C	18-22/Red	0.960	\$.108	\$.061	\$.051
503089	19154-0015-C	14-16/Blue	0.975	.138	.118	.108

### Spade Tongue

- Material: copper • PVC insulation
- Blue Part No. = Limited Quantity Available

Part No.	Product No.	AWG/Color	Stud Size	Width (in.)	10	100	500
502879	19144-0001-C	18-22/Red	5-6	0.326	\$.108	\$.104	\$.092
502887	19144-0003-C	18-22/Red	8	0.326	.108	.104	.092
502916	19144-0015-C	14-16/Blue	5-6	0.255	.128	.118	.108

## Vinyl Insulated Solderless Terminals

- Insulation thickness: .030" • Funnel ramp entry
- Temperature to 105°C
- Use with crimping tool P/N 72996, pg 141
- Sold in increments of 10



### Ring & Spade Solderless Terminals

Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103684	Ring solderless	#6	22-16	Red	\$.11	\$.07	\$.05
103588	Spade solderless	#6	22-16	Red	.14	.078	.065
103596	Spade solderless	#8	16-14	Blue	.132	.075	.066

### Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106922	Female	.187"	22-16	Red	\$.12	\$.07	\$.05
103668	Female	.25"	22-16	Red	.12	.07	.05
109112	Female w/ hood	.25"	22-16	Red	.204	.132	.066



## Krimptite™ Solderless Terminals

This Krimptite is the basic barrel style that is non-insulated and features a quality, one-piece design. It is also the most economical style and has the greatest variety of uses.



### Spade Terminals

- Material: copper • Non-insulated
- Prepackaged: please order in increments of 10

Part No.	Product No.	AWG	Stud Size	Width (in.)	10	100	500
502836	19141-0098-C	24-26	4	0.213	\$.029	\$.027	\$.025
502705	19141-0022-C	18-22	8	0.326	.047	.045	.043
502692	19141-0020-C	18-22	5-6	0.326	.043	.041	.039
502801	19141-0085-C	10-12	10	0.385	.085	.081	.077



## Versakrimp™ Solderless Terminals

When the buttend seam Krimptite barrel is bonded with a special brazing alloy, it becomes a Versakrimp barrel. These brazed-seam barrel terminals and splices will not open under conditions of stress or wire pull. As versatile as it is tough, it can be crimped under most adverse conditions by many types of tooling. The Versakrimp is ideal for hard-to-crimp solid and stranded wires.



### Butt Splice

- Seamless barrel • Material: copper

Prepackaged: please order in increments of 10

Part No.	Product No.	AWG	Inner Diam.	Outer Diam.	Length	10	100	500
494469	19215-0009-C	18-22	0.059"	0.130"	0.675"	\$.069	\$.061	\$.048
494477	19215-0018-C	14-16	0.091"	0.160"	0.675"	.118	.108	.098

### Ring Tongue

- Material: copper

NEW

Prepackaged: please order in increments of 5

Part No.	Product No.	AWG	Stud Size	Width (in.)	5	50
795034	19193-0016	18-22	10	1.062	\$.157	\$.127

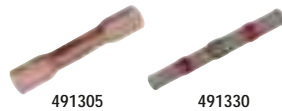


## Perma-Seal™ Solderless Terminals

Perma-Seal terminals and splices give you long-lasting, moisture-proof connections that withstand water, salt, condensation, corrosion and heat, all of which cause serious problems for conventional, unsealed splices. The inner wall of the heat-shrinkable Perma-Seal sleeve is lined with a special hot-melt adhesive that is inert at room temperature, permitting wires to be inserted easily into the splices and terminals.

• NiAc™ insulation

• Blue Part No. = Limited Quantity Available



### Ring Terminals

Prepackaged: please order in increments of 10

Part No.	Product No.	AWG/Color	Stud Size	10	100	500
491031	19164-0085-C	18-22/Red	6	\$ .399	\$ .38	\$ .361
491014	19164-0032-C	14-16/Blue	6	.418	.399	.38

### Butt Splice

Part No.	Product No.	AWG/Color	10	100	500
491305	19164-0013-C	18-22/Red	\$ .51	\$ .446	\$ .412
491313	19164-0044-C	14-16/Blue	.48	.432	.393

### Butt Splice Parallel Solder

Part No.	Product No.	AWG/Color	10	100	500
491330	19164-0163-C	18-22/Red	\$ .48	\$ .44	\$ .38
491971	19164-0164-C	14-16/Blue	.38	.37	.364



## Insulation Displacement Connectors (IDC)

### Self-Tapping (ID) Tap & Run Multi-lock Connectors

They will tap-splice, pigtail-splice, parallel splice or in-line splice insulated copper wire conductors for a wide range of applications.

Prepackaged: please order in increments of 10

Part No.	Product No.	AWG/Color	Description	10	100	500
494531	19216-0005-C	18-22/Red	Insulation connector ....	\$ .114	\$ .105	\$ .086

### Ultimate Wire Tap

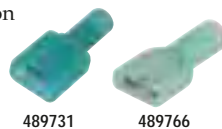
This Tap-And-Run splice is actually a fully insulated female quick disconnect that can be spliced onto a wire and then mated with a fully insulated male quick disconnect, without any special tools.

Part No.	Product No.	AWG/Color	Description	10	100	500
494549	19216-0009-C	12/Yellow	Wire tap	\$ .31	\$ .281	\$ .265



## Fully Insulated Couplers

These fully insulated nylon couplers are precision engineered, allowing the female terminal to fit precisely into the corresponding male housing, which provides a fully insulated inline splice. This splice may be connected and disconnected without damage to the nylon insulation.



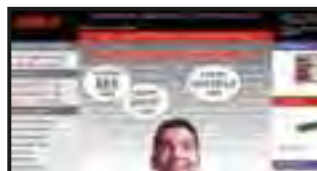
### Male Couplers

Prepackaged: please order in increments of 10

Part No.	Product No.	AWG/Color	Tab Size (in.)	10	100	500
489723	19004-0001-C	18-22/Red	0.250 x 0.032	\$ .155	\$ .137	\$ .117
489731	19004-0005-C	14-16/Blue	0.250 x 0.032	.104	.099	.094

### Female Couplers

Part No.	Product No.	AWG/Color	Tab Size (in.)	10	100	500
489758	19005-0001-C	18-22/Red	0.250 x 0.032	\$ .124	\$ .114	\$ .095
489766	19005-0005-C	14-16/Blue	0.250 x 0.032	.095	.09	.086
489774	19005-0010-C	10-12/Yellow	0.250 x 0.032	.219	.181	.143

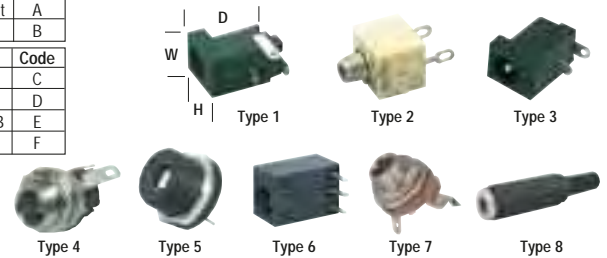
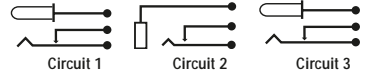















More Terminals  
 available on our website  
 at [www.Jameco.com](http://www.Jameco.com)

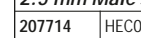
## Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel

Terminals	Code
Solder eyelet	A
PC board	B
Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F



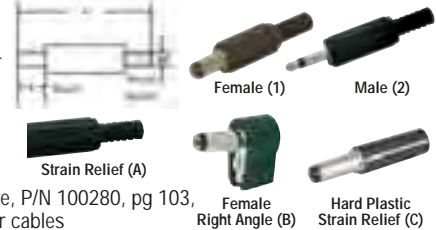
Part Number	Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing			
						1	10	100	1000
1.3 mm Male Jacks									
101195	PP024 	6.0 x 6.0 x 9.0	6/D	1/B	1.3 mm F	\$ .62	\$ .48	\$ .44	\$ .36
2.1 mm Male Jacks									
101179	PP014 	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm F	\$ .49	\$ .44	\$ .39	\$ .35
137673	PP013 	10.9 x 9.0 x 14.5	3/D	3/A	2.1 mm F	.40	.36	.32	.29
151590	DPJ-021A 	13.0 x 12.6 Dia.	5/C	1/A	2.1 mm F	1.19	.99	.79	.69
151555	DPJ-026 	15.1 x 8.0 Dia.	4/E	1/A	2.1 mm F	1.59	1.29	1.09	.89
159611	PJ1014A 	35.8 x 12.6 Dia.	8/F	3/A	2.1 mm F	1.79	1.50	1.31	1.07
2.5 mm Male Jacks									
207714	HEC0470 	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm F	\$ .54	\$ .42	\$ .336	\$ .252
101187	PP014A 	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm F	.59	.53	.42	.32
151563	DPJ-026A 	15.1 x 8.0 Dia.	4/E	1/A	2.5 mm F	1.49	1.24	1.13	.99
159506	PJ1015A 	35.8 x 12.6 Dia.	8/F	3/A	2.5 mm F	1.67	1.50	1.36	1.22
202358	HD2388 	17.0 x 12.0 Dia.	5/C	3/A	2.5 mm F	1.09	.98	.88	.79
3.5 mm Female Jacks									
109496	PJ035PM 	10.5 x 9.0 x 8.8	2/C	2/A	3.5 mm M	\$ .53	\$ .472	\$ .425	\$ .378
165730	PJ0354 	8.9 x 5.7 Dia.	7/C	3/A	3.5 mm M	.79	.67	.56	.45



## Male & Female Power Plugs

Quantity SAVE

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters, pgs 195-198
- Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280, pg 103, to make custom length power cables



Part Number	Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S x L x ID (strain relief)	Type	Pricing			
					1	10	100	1000
<b>Female Plugs</b>								
71192	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (blk)	1/A	\$ .95	\$ .86	\$ .78	\$ .71
191484	PP049W	2.1 x 5.5	9.6 x 43.9 x 4.5 (wht)	1/A	.69	.62	.56	.42
28760	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (blk)	1/A	.71	.59	.468	.348
147329	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (blk)	1/A	1.09	.97	.88	.79
138587	PJ021R	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (blk)	1/B	.89	.75	.65	.59
190538	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (blk)	1/A	.39	.32	.29	.248
28768	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (blk)	1/A	.89	.74	.59	.497
147336	PP109L	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (blk)	1/A	.90	.82	.65	.492
168242	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (blk)	1/C	.65	.536	.471	.383
<b>Male Plugs</b>								
101135	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (blk)	2/A	\$ .71	\$ .64	\$ .468	\$ .348
101152	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (blk)	2/A	.58	.45	.42	.35

## Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Accepts .25" x 1.25" fuse



Part No.	Description	1	10	100
115002	W/ 5A/250VAC fuse	\$2.34	\$1.98	\$1.43
124760	W/ 3A/250VAC fuse & 3' cord (pigtail end)	2.19	1.98	1.94

star motor



star motor

JOHNSON  
ELECTRIC

## 1.2VDC-24VDC Motors

NEW

Quantity SAVE



Part No.	Product No.	Manufacturer	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (in.) (Dia. x Depth)	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
154915	ST-130-12240	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09"/solder	0.08	0.37	0.79 x 1.13	\$1.29	\$1.16	\$0.86
154923	ST-130-22770	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	1.19	1.01	.76
177498	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11"/solder	0.08	0.43	0.95 x 1.20	1.95	1.66	1.25
174692	21226-384221	Johnson Electric	12	9-14	0.015	3000	85.06	—	0.11"/solder	0.08	0.69	0.97 x 1.19	2.49	2.25	1.67
206949	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	2.15	1.93	1.73
1586031	FK-260SA	Mabuchi Motor	12	12-24	0.027	5800	14.8	—	.08"/solder	0.08	0.42	0.96 x 1.06	1.59	1.39	1.25
1586058	FK130RH-10450	Mabuchi Motor	12	6-18	0.036	9750	8.9	—	.08"/solder	0.08	0.31	0.80 x 0.99	2.59	2.59	2.29
1586040	RS365PH-11240	Mabuchi Motor	24	9-28	0.070	10700	411	—	.011"/solder	0.09	0.49	1.08 x 1.28	2.59	2.59	2.29
1586023	RK370C	Mabuchi Motor	24	12-30	0.15	3850	19.3	—	.08"/solder	0.08	0.67	0.96 x 1.21	2.59	2.59	2.29
267291	SUN-555A-LMRK	Telco	24	—	0.150	4100	84	—	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.59	2.29	1.72

JAMECO ReliaPro

## 1.5-112VDC Motors

**Applications:** • RC cars and airplanes • Arcade games • Vending machines • Office automation products • Tire pumps • Christmas trees  
• Motorized toys • Vacuum cleaners • Hair removers • Blow dryers • Paper shredders • Cordless power tools

A Jameco EXCLUSIVE



### Nichibo-Type

Quantity SAVE

Part No.	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (")	Shaft Length (")	Body Size (in) Dia. x Depth	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231909	FE-260-18130	1	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	\$1.19	\$1.01	\$0.83
232143	FF-050S-11170	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
231732	PC-130SF-09480	2	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231896	FE-260-08450	1	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.76
232021	MD5-1885	4	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
232040	MD5-2070	4	12	6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
232048	MD5-2445	4	12	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43

### Mabuchi-Type

238465	RF-310TA-11400 (CCW)	5	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.700	0.962 x 0.712	\$2.99	\$2.55	\$1.91
238458	RF-300PA-11400 (CW)	6	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.200	0.960 x 0.504	4.35	3.70	2.77
238511	RF-500TB-12560	7	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	3.82	2.86
238473	RF-370CA-15370	8	12	3-12	0.17	4840	187	—	Solder	0.078	0.346	0.960 x 1.213	5.55	4.72	3.54

### Hi-Torque

237391	29SYT003	9	13.5	13.5	13	18000	509	—	Quick connect	0.125	1.003	1.141 x 2.283	\$5.95	\$5.05	\$3.93
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JAMECO ReliaPro

## 1.3VDC and 3VDC Vibrating Motors

• Typical applications: cellular phones, pagers and toys

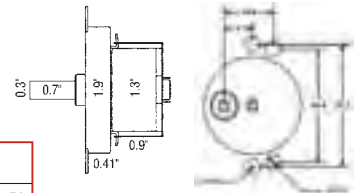
A Jameco EXCLUSIVE



Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) Dia." x Depth"	Shaft Size (C x D) Dia." x Length"	Pricing		
									1	10	100
175062	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$5.49	\$4.94	\$3.67
256306	6ZK003	2	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256365	7ZK692	2	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256382	7ZK681	2	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256314	6ZK053	2	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256331	6ZK261	3	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC term.	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256091	4ZK091	2	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85

**JAMECO ReliaPro****6, 12 and 24VDC Reversible Gear Head Motors**

- Solder-type terminal
- High torque construction
- Dielectric strength: 300VDC
- Oil bearing design for long service life
- Insulation resistance: 10MΩ

**32GM Series**

32GM Series													
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253228	32-001R	6	—	35	24	450	50:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	\$19.25	\$17.35	\$15.59

**GH30GM Series**

170642	GH12-1828Y-10R	12	6.0 - 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	\$27.35	\$23.22	\$17.42
153438	GH12-1045Y	12	3.0 - 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	0.16 x 0.70	18.95	17.09	15.35
159418	GH12-1921Y	12	4.5 - 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	24.39	21.97	19.75
162191	GH12-1324Y225R	12	4.5 - 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	0.16 x 0.70	17.79	16.01	14.44

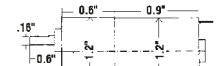


253228

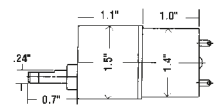
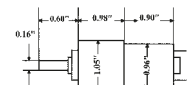
159418

**GH35GM Series**

155012	GH12-1926R	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.79	\$17.79
155821	GH12-1830Y-P	12	4.5 - 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.89	20.63	18.54
155839	GH12-1641T-L	12	3.0 - 12	250	15	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	25.35	22.85	20.59
152911	GH12-1926Y-F	12	4.5 - 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	23.89	21.50	19.32
151441	GH12-1632TI	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155855	GH12-1641T-F	12	3.0 - 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	23.55	21.24	19.10
155863	GH12-1926Y-F	12	4.5 - 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	23.99	21.99	19.99
161373	GH12-1345T	12	4.5 - 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	20.35	15.26
161382	GH12-1634T	12	4.5 - 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
164786	GH12-1640Y	12	4.5 - 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	31.79	27.01	20.26
176049	GH12-1640Y00	24	12 - 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	18.66	15.52
176032	GH24-1640Y06	24	12 - 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.75	21.37	19.21
176023	GH24-1640Y19	24	12 - 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	21.60	19.42

**GH30GM Series**

155012

**GH35GM Series****HN27GD Series**

⊕ Blue Part No. = Limited Quantity Available

**HN27GD Series**

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
167039R	GH12-0953Y	12	4.5 – 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	0.16 x 0.60	\$18.45	\$16.63	\$15.00
167047	GH12-1828Y	12	4.5 – 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	0.16 x 0.60	23.79	21.43	19.27

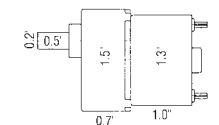
**38GM Series**

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253534	38-010⊕	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	\$21.85	\$19.71	\$17.70
253519	38-008⊗	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253500	38-007⊕	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.79	18.52	17.59
253497	38-006⊕	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	20.39	18.39	16.52
253472	38-004⊗	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.89	19.75	17.75
253455	38-002⊗	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.70
253446	38-001⊕	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	21.85	19.71	17.69



167039

253446

**38GM Series****Other Manufacturers**

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
1537168	17N-78-210E-1	12	7.7	8500	948	352:1	0.6 x 1.1	0.7 x 1.0	0.1 x 0.3	\$17.95	\$16.49	\$14.95
1537176	17N-78-213E-1	12	9.1	8300	1091	166:1	0.6 x 0.8	0.7 x 1.0	0.1 x 0.4	17.95	16.49	14.95



1537168

1537176

**120VAC Gear Motor****6.0 RPM - 2.9 Watt**

- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Connector: 12" wires
- Shaft diameter: 0.27"
- Shaft length: 0.65"
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor



Part No.	Cross Ref. No.	Size	1	10	100
213488	50TYZ	2.0" dia. x 1.0" thick	\$19.75	\$17.75	\$15.97

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Ⓡ RoHS compliant product ⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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## KAE Industrial Motion Controllers for Brush, Brushless and Stepper Motors



### 323942: PIC-SERVO motor control board

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps
- Size: 3.1"L x 2.1"W x 0.9"H

### 185009/323951: PIC-SERVO 3PH motor control board for brush or brushless motors

- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Support for linear & circular interpolation using the PIC-SERVO CMC chipset
- P/N 323951 Amplifier capable of driving 6A continuously @ up to 48VDC
- Size P/N 323951/184997: 3.1"L x 3.1"W x 0.9"H, P/N 185009: 3.1"L x 3.1"W x 1.0"H

### 184997: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Size: 3.1"L x 2.1"W x 0.9"H

Part No.	Description	1	10
323942	KAE-TOVIO .....	\$169.55	\$152.59
185009	KAE-TOV5-BD3-PHV1 .....	271.79	244.69
323951	KAE-TOVIO .....	241.55	218.31
184997	PIC-STEP .....	159.95	143.95



## Multi-Stepper Motor Control Board

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec. • Size: 7.7"L x 5.0"W x 1.0"H
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- 26 digital I/O and two SPI interfaces for control of external devices



Shown w/ motors - not included

Part No.	Description	1	10
168729	Stepper motor control brd ..	\$399.95	\$379.95

## Sport232-ST One Axis Stepper Motor Controller/DAC Board

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic)
- 8 digital I/O and 8 analog inputs with 12-bit resolution
- Free 32-bit DLL for Windows® 9x/NT/2000/XP, Linux and Labview



Part No.	Description	1	10
1537344	Sport232-ST1 .....	\$247.99	\$237.99

For more Motors, visit our website  
[www.Jameco.com](http://www.Jameco.com)

## Scott Edwards Electronics, Inc. Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115554, pg 108) or modular adapter from DB9 to RJ11 (P/N 114738, pg 108)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



Part No.	Description	1	10
151001	Mini SSC II .....	\$43.95	\$41.79

## High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Size: 0.8"W x 1.4"D x 1.6"H
- Torque: 49 oz.-in. (3500 g-cm) @ 4.8V
- Can be operated by P/N 151001, pg 148



Part No.	Description	1	10
157067	Robotic servo .....	\$19.95	\$17.95

## 12VDC Solenoid Valve

- Operating voltage: 12VDC
- Dimensions: 1.2"L x 0.92" Dia.
- 0.250" quick disconnect terminals
- Operational temp.: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi • Current: 350mA



Part No.	Description	1	10	100
169835	Solenoid valve .....	\$8.05	\$7.25	\$6.48

## 12VDC Power Solenoid

- 12VDC • 4Ω coil
- Handles a 225A load
- Intermittent 50% duty cycle
- 1/4-20 copper studs • 2.25" mounting centers
- Contractors power solenoid • Size: 1.86" x 3" base



Part No.	Product No.	1	10	100
1585645	93285 .....	\$6.49	\$6.49	\$5.85

JAMECO ReliaPro

## 12VDC and 24VDC Continuous Push, Pull and Push/Pull Solenoids



Part No.	Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke (ins.)	Size L x Dia. (ins.)†	Shaft Dia. (ins.)	Wt. (lbs.)	Pricing		
											1	10	100
262247	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	\$9.99	\$8.89	\$7.99
262290	SMO-1253L12AA	Open frame-pull	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.470	0.50	14.75	13.26	11.97
262263	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	9.95	8.92	8.02
262272	SMO-0837S12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	10.09	9.11	8.22
262167	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	11.95	10.74	9.78
142464	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	7.99	7.59	7.20
215141	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	10.95	9.31	6.98
149754	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	16.45	15.68	14.84
149762	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	11.75	10.57	9.51
262175	SMT-2551S24STD	Tubular-push	24	58	10.0	1.32	0.70	2.0 x 1.0	0.120	0.40	15.95	14.67	13.94
262191	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	23.95	21.54	19.43
145314	SMT1913S12A	Tubular-push/pull†	12	89	2.0	1.12	0.16	1.2 x 0.7	0.110	0.05	9.95	8.96	8.06

† Open frame type dimensions: L" x W" x H"

\* Dual shaft

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

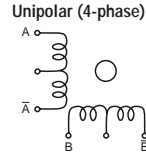
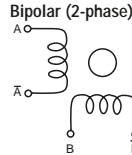
JAMECO ReliaPro

## Bipolar and Unipolar Stepper Motors

Quantity SAVE

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 200 VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998, pg 243, for shaft coupler



A Jameco  
EXCLUSIVE



Part No.	Cross Ref. No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																		1	10	50
237526	42BYGH001	1	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$22.35	\$19.01	\$14.26
237489	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	19.15	16.26	13.11
237578	57BYG061	3	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	35.49	31.93	28.73
237518	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	19.79	17.04	12.78
155460	42BYG023	2	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	20.95	18.99	17.01
237472	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	21.45	19.33	17.39
237463	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	15.95	14.50	12.42
237569	57BYG009	3	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	27.45	20.58
237614	57BYGH801	4	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.55	32.01	28.78
237535	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	16.15	14.55
237552	57BYG008	3	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	35.79	32.19	28.97
237622	57BYGH802	4	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	32.04	24.03
237607	57BYGH001	4	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	36.89	33.21	29.92
237825	25BY4801	6	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	5.95	4.95	4.43
237674	35BY48B06	7	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	6.49	5.85	5.25
237737	42BY48H08	8	Unipolar	5	7.5	9.1	550	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.28	7.29	6.19	5.87
223870	57BYG070	3	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.00	2.00	49.95	42.45	31.83
237631	57BYGH803	4	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	54.90	41.17
172646	42BYG205	3	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	21.35	19.27	17.32
224022	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	20.35	18.27	16.47
155433	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.55	18.64	16.70
237543	57BYG007	3	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	28.75	24.44	18.92
238538	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	22.05	19.83	17.85
162027	57BYG084	3	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.65	32.09	28.87
173181	30BYJ02AH	6	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	15.35	13.03	9.76
238115	35BY48B08	7	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	6.19	5.68	5.17
237585	110BYG450C	3	Unipolar	80-200	0.9/1.8	0.18	6000	2	3060	45,900	5.0	0.33	0.63	2.13	4.33	5.10	8.40	122.25	112.59	102.35

\* 155460: Dual shaft \*\* 173181: Gear ratio 85.25:1

### Other Manufacturers — Great Deals



Part No.	Cross Ref. No.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Pricing		
																1	10	50
1581231	PX243M-01AA	Bipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	\$11.95	\$10.95	\$9.49
163395	5017-9350	Bipolar	8.4	0.9	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	5.59	4.79	3.59
454475	41118S-62-07	Bipolar	24	1.8	0.6	2500	.93	—	3240	—	—	0.190	0.50	1.67	1.34	19.95	17.95	13.46
1585653	KP35FM2-044	Bipolar	24	1.8	—	500	7.8	90	700	1.45	0.09	0.197	0.90	1.62	1.05	10.95	10.49	8.95

† 163395: Dual shaft ⚡ Blue Part No. = Limited Quantity Available

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 246.

# Snap-Action, Keylock & Pushbutton Switches

Color Code Legend			
New	Sale	Lower\$	QtySave



## Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H



159572



159581



187805

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Resistance (Initial)	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
159572	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A @ 125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.25" quick disconnect	\$2.89	\$2.54	\$2.28
159581	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A @ 125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.08	1.56
187805	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A @ 125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29



## Subminiature Basic Switches

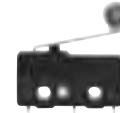
- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H



187709



187733



159599

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Contact Force	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	25	50
187709	SS-5GL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	\$1.59	\$1.45	\$1.29
187733	SS-5GL2	Omron	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	1.29	1.19	1.13
159599	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	1.29	1.07	.96



## Miniature Snap-Action Switch



Part No.	Product No.	Current Rating	Contact Form	Actuator	Terminals	Pricing		
						1	25	50
617844	35-880	10A @ 125VAC	SPDT	Lever	0.187" QC	\$2.39	\$2.21	\$2.07

For more Switches visit our website  
[www.Jameco.com](http://www.Jameco.com)



## Pushbutton Binary Coded Decimal (BCD) Switch

26789 (2 switches shown)

## Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26818

### Pushbutton and Thumbwheel Switch Specifications:

- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max.
- Front snap-tab mounting w/ end plates
- Switches snap together

Part No.	Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing			
					1	10	50	100
26789	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$6.85	\$6.18	\$5.58	\$4.98
26818	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.69	4.14	3.72	3.34
26771	MXEP3	Mounting end plates for 26818	1.2 x 0.2 x 1.3	—	1.05	.88	.84	.77



## SPST Round Keylock Switches

- Used in computer and other security systems
- Key removable from 2 positions
- Mounting hole = 0.75" except P/N 106650 = 0.5"

196649: all keys are alike

Includes: Mounting nut



106650



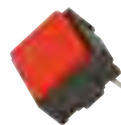
105832/196649

Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	Pricing			
						1	10	50	100
106650	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	\$4.35	\$3.95	\$3.47	\$2.99
105832	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.15	3.73	3.42	3.11
196649	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.75	4.23	3.87	3.49



## KS Series Single Pole Switch

- Typical applications: telecommunications, industrial, instrumentation
- Electrical life: 10,000 actuations
- Contact resistance: below 100mΩ initial @ 2-4VDC, 100mA
- Insulation resistance: 1,000MΩ min.
- PC terminals
- Dielectric strength: 1,000VRMS

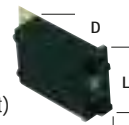


Part No.	Product No.	Description	Contact Rating	1	10	100
583357	KS11R23CQD	Round depression cap, red	25mA @ 50VAC/VDC	\$1.25	\$1.20	\$1.16



## Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"



Part No.	Cross Ref.	Description	1	10	100
136558	MX061	10-position ...	\$3.79	\$3.41	\$3.06

## Switch Grab Bags

18235: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches

135378: 1 lb. (approx. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches



18235

Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235	GB165	0.4	\$8.75	\$7.69
135378	GB165LB	1.0	18.95	16.95



## Keylock Switch

- Contact rating: 2A @ 250VAC/4A @ 28VDC
- 2.1A @ 46VDC (96VAC)
- SPST on-off
- Screw terminal
- Lock type: 5 disk tumbler
- Mounting hole: 0.875"



Includes: Nut, screw, ring & 2 keys

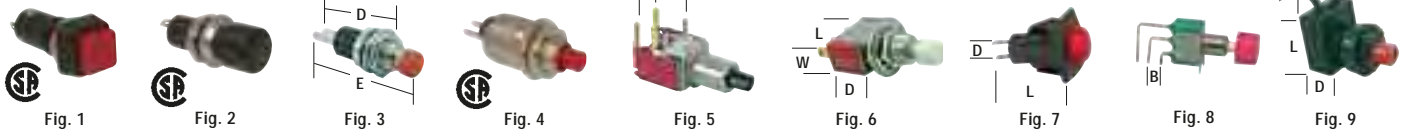
Part No.	Product No.	1	10	50
621317	35-196	\$13.69	\$12.98	\$12.33

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## Pushbutton Switches



Part No.	Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Button Color	Pricing				
							A"	B"				1	10	100	500	1000
315432	R13-23A-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	\$1.13	\$1.05	\$0.90	\$0.83	\$0.78
315484	R13-23B-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315442	R13-23A-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315599	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.35	1.23	1.10	.99	.93
315580	R13-40A-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.35	1.22	1.04	.83	.62
26623	MS102R	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.66	.60	.54	.42	.348
26649	MS103	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.65	.57	.479	.388	.296
315643	R13-81-R	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	1.25	1.15	1.06	.95	.84
71643	SWB210R	5	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.65	2.39	2.14	1.92	1.67
121305	CK8121R	6	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28063	PB126R	6	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
174414	R13-510A	7	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69

### Other Manufacturers

154878	PS11-123	8	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	\$1.79	\$1.70	\$1.61	\$1.51	\$1.43
22200	J1881	9	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.09	.98	.83	.67	.50
22218	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.05	.91	.81	.73	.64

\* Lead wires † Alt = alternate action



## Pushbutton Switches

### IP and AV Series Panel Mount Pushbutton Switches

#### 171758 /171766: IP Series

- Initial contact resistance: 50mΩ max.
- Insulation resistance: 1GΩ min. @ 500VDC • Mounting hole: 1/2"Dia. • Dielectric strength: 1500V<sub>RMS</sub> min. • Mechanical life: 1,000,000 cycles min.

#### 171774: AV Series

- Initial contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min. • Mounting hole: 3/4"Dia. • Dielectric strength: 1000V<sub>RMS</sub> min.

Part No.	Product No.	Pins	Type ( ) Momentary	Dimensions			Lead Spacing	Contact Rating	Terminal Type	Pricing			
				L	W	D				1	10	100	250
171758	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	\$10.89	\$9.82	\$8.87	\$7.87
171766	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49
171774	AV191003C900	2	SPST off-(on)	1.20"	—	0.87"	0.37"	0.2A @ 48VDC	Screw	12.55	11.38	10.24	9.23



## Pushbutton Switches

- 2-pin • Lead type: solder terminal
- Contact rating: 164566/164639: 0.5A @ 125VAC; 164582/164671: 1A @ 125VAC; 106112: 3A @ 110VAC

Lower \$\$\$

### Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164494	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	\$2.09	\$2.05	\$1.97	\$1.88
164486	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	2.39	2.30	2.18	2.07
164523	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	2.05	1.96	1.89	1.82

### Standard Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164566	MS402R	3	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	\$1.23	\$1.19	\$1.15	\$1.09
164582	DS016B	4	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.65	1.59	1.53	1.46
164639	MS3120R	5	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	1.65	1.49	1.34	1.26
106112	DS412R*	6	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.05	1.03	.99	.98

\* Solder lugs



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## CHERRY® E Series Panel Mount Pushbutton Switches

- Snap-in panel mounting
- Long life coil spring, snap-action mechanism
- Temperature rating: -40°C to 85°C
- Flammability rating: UL94V-0
- Case: thermoplastic polyester
- Actuating button: thermoplastic acetal
- Terminals: brass, 0.197" quick connect
- Moving blade: beryllium copper • Spring: stainless steel

**NEW**



Part No.	Prod. No.	Description	Contact Form	Contact Rating	Contacts	Pricing		
						1	10	50
1720114	E68-30A	Momentary	SPDT	0.1A @ 125VAC	Gold crosspoint	\$5.65	\$4.20	\$4.09
1720131	E69-00A	Basic Momentary	SPDT	10A @ 250VAC	Silver alloy	3.09	2.90	2.69
1720229	E79-30A	Momentary	DPDT	10A @ 250VAC	Silver cadmium oxide	6.55	6.33	6.07

## Switchcraft®

## Cord-Switch®

- Maximum cable side diameter: .375"
- Copper alloy plated housing and switch bushing
- Plastic insulation



Part No.	Product No.	Description	1	10	25
297502	ED903	Cord-switch	\$10.95	\$10.64	\$9.95

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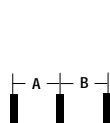
- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate

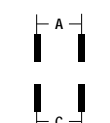


## Standard Toggle Switches

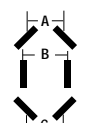
**Quantity SAVE**



3-pin



2-pin or 4-pin



6-pin



Fig. 1



Fig. 2



Fig. 3

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76241	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.79	\$1.61	\$1.37	\$1.10	\$ .82
76232	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	2.25	2.00	1.86	1.67	1.50
318002	R13-28A-01	3	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.99	1.75	1.39	1.25	1.13
318123	R13-28D-01	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.30	2.94	2.50	2.00	1.67
318141	R13-28D-06	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.69
158060	JKN32	1	4	SPDT on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.38	1.26	1.14	1.02	.78
76260	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45	1.29	1.15
158078	JKN33C	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.75
318043	R13-28B-01	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.75	3.35	2.59	2.35	2.09
318051	R13-28B-05	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.75	3.35	2.59	2.35	2.09

**JAMECO ValuePro**



## Miniature Toggle Switches

- Mounting hole diameter: 1/4"

Includes: Mounting hardware

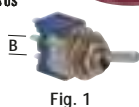


Fig. 1



Fig. 2

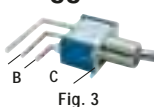


Fig. 3

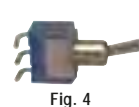


Fig. 4



Fig. 5

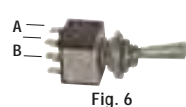


Fig. 6

Part No.	Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76523	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.38	\$1.24	\$1.12	\$ .90	\$ .78
21936	JMT123	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.19	1.05	.81	.70
21910	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.71
22833	LFH123	2	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.38	1.26	1.14	1.02	.90
75854	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.40	1.25	1.13	.83
75889	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.99	1.85	1.55	1.09	.95
26332	MPC123	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.72
71597	SWM148	3	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.29	1.19	.99	.79	.59
75871	SWM145	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
22841	LFH221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979	JMT223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859	LFH223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.55	1.43	1.26	1.14	.89
75900	SWM133	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.79	1.61	1.37	1.10	.82
21952	JMT221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.37	1.17	.93	.70
75951	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
26367	MPC223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.49	1.35	1.25	.99	.89
26358	MPC221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.79	1.59	1.39	1.29	1.19

## Other Manufacturers

1585506	7201L1YZTME	1	6	DPDT on-on	.50 x .45 x .35	—	.135	—	5 @ 120 & 2 @ 250	Solder lugs	Round	\$2.95	\$2.65	\$2.25	\$1.95	\$1.59
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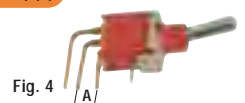
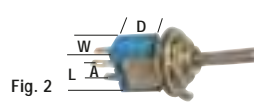
RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

**JAMECO ValuePro**

## Subminiature Toggle Switches

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware



**Lower \$\$\$**

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing		Contact Rating	Lead Type	Lever Type	Pricing				
						A"	B"				1	10	100	500	1000
106068	SWP124R	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$2.39	\$2.20	\$1.91	\$1.73	\$1.59
72161	SW1501R	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.19	1.18	1.14	1.09	.92
75969	SWM136R	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
138907	SW1503R	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.55	1.26	1.02	.77	.58
75977	SWM137R	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.45	1.17	.94	.72	.61

### Other Manufacturers — Great Deals

1585493	FT012D1AVBE	4	3	SPDT on-on	.32 x .20 x .18	.10	—	20mA @ 20VDC/VAC	PC right angle	Round	\$1.49	\$1.39	\$1.25	\$1.10	\$ .95
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## Rocker Switches



### Standard Appliance Rocker Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
621561	35-3030	1	SPST on-off	16 @ 125	0.55" x 1.25"	Panel mount	0.250" quick connect	Black w/ red on/off	Rectangle	\$2.19	\$1.92	\$1.79
622184	35-3600R	2	SPST on-off	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	3.89	3.51	3.16
622281	35-3695	2	DPDT (on)-off-(on)	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	7.59	7.02	6.52
617300	35-654R	3	DPST on-off	20 @ 125	1.0" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	3.55	2.99	2.68
617473	35-695	2	SPDT (on)-off-(on)	16 @ 125	0.55" x 1.12"	Panel mount	0.250" quick connect	Black	Rectangle	4.25	3.52	3.30
617457	35-693	4	SPST on-off	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black w/ red on/off	Rectangle	2.25	2.01	1.81
617465	35-694R	4	SPDT on-off-on	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	2.39	2.17	1.95

### Lighted Mini Rocker Switch

617289	35-646	5	DPST on-off	10 @ 125	0.755" x 0.508"	Panel mount	Solder eyelet	Lighted red LED	Rectangle	\$6.05	\$5.28	\$4.76
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### Miniature Rocker Switches

617166	35-606	6	DPDT on-on	8 @ 125	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	\$2.19	\$1.78	\$1.44
617174	35-607R	6	SPST on-off	11 @ 125	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	1.79	1.44	1.24
617246	35-642	7	SPST on-off	10 @ 125	0.508" x 0.755"	Panel mount	0.250" quick conn.	Black w/ white indicating	Rectangle	3.45	2.89	2.59
617254	35-643R	8	DPST on-off	16 @ 125	0.483" x 1.021"	Panel mount	0.250" quick conn.	Black w/ white indicating	Rectangle	5.15	4.41	4.02
617369	35-676	9	DPDT on-off-on	8 @ 125	0.625" x 0.523"	Panel mount	Solder lug	Red	Rectangle	5.29	4.57	3.96

### Lighted Appliance Rocker Switches

622408	35-3790	10	SPST	15 @ 125	0.55" x 1.125"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	\$3.39	\$2.98	\$2.76
617326	35-656R	11	SPST	15 @ 125	1.45" x 0.83"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	5.29	4.67	4.20
617481	35-696	12	SPST	12 @ 125	0.508" x 0.756"	Panel mount	0.187" quick conn.	125V neon red	Rectangle	2.99	2.72	2.58
617422	35-688R	13	SPST	15 @ 125	0.453" x 1.10"	Panel mount	0.250" quick conn.	105/120V neon red	Rectangle	3.99	3.23	2.73

Blue Part No. = Limited Quantity Available

**JAMECO ValuePro**

## Rocker Switches

- Rectangle rocker type
- Mounting type: panel mount
- Mounting hole: 0.78"L x 0.52"W
- Terminal type: 0.187" quick connect



Part No.	Cross Ref. No.	Pins	Type ( ) Momentary	Contact Rating (A @ VAC)	Rocker Color	Lead Space		Dimensions (L"xW"xD")	Pricing		
						A"	B"		1	10	100
316014	R13-66A-B-02R	2	SPST on-off	16 @ 125	Black top	0.31	—	.83 x .59 x .47	\$ .99	\$ .86	\$ .56
316022	R13-66A-R-02R	2	SPST on-off	16 @ 125	Red top	0.31	—	.83 x .59 x .47	.99	.86	.56
316111	R13-73A2-B-02R	4	DPST on-off	10 @ 125	Black (I-O)	0.20	0.34	.83 x .59 x .87	1.69	1.58	1.42

**Jameco's Got  
The Docs**

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## JAMECO ValuePro

## Tactile Switches



Fig. 1



Fig. 2

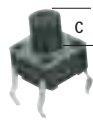


Fig. 3

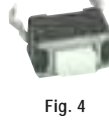


Fig. 4



Fig. 5

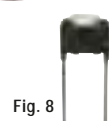


Fig. 8



Fig. 6



Fig. 7

- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ

Part No.	Cross Ref. No.	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A"	B"			1	10	100	250
122973	DT51212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	\$ .26	\$ .23	\$ .19	\$ .17
119010	KT11B1CM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.22	.20
149948	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	.26	.23	.21	.19
153251	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.15
155249	KRS-3550-BK	4	2	.24	.14	.15	—	.27	—	50 @ 12	Black	.22	.20	.16	.15
155380	KRS-1273B	5	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

♦ See switch caps below

## Tactile Switch Caps ♦

10 piece minimum

Part No.	Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155389	KRS-CAP-A	6	Square	.47"L x .47"W x .16"H	Plastic	P/N 155380	\$ .15	\$ .11	\$ .10
155409	KRS-CAP-B	7	Round	.50"Dia. x .25"H	Plastic	P/N 155380	.16	.14	.12

## Other Manufacturers — Great Deals

Part No.	Cross Ref. No. *	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A"	B"			1	10	100	250
199726	EVQ11A04M	8	2	.24	.24	.14	.30	.20	—	20 @ 15	White	\$ .33	\$ .239	\$ .212	\$ .156
1586074	EVQ-PAG04K	2	4	.24	.24	.14	.05	.17	.26	20 @ 12	Black	.23	.21	.19	.17

\* Manufacturer may vary



## Specialty Switches



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

**Pull Chain Switch** • Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

Part No.	Product No.	Fig.	Contact Form	Actuator	Terminal Type	1	10	50
617764	35-864	1	SPST on-off	3 1/2" pull chain	6" wires	\$2.75	\$2.52	\$2.31

**Magnetic Proximity** • Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC

Part No.	Product No.	Fig.	Contact Form	Need magnet	Screw term., 1/4" gap, surface mount	\$3.35	\$3.16	\$3.08
617502	35-750	2	SPST NO w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	4.15	3.97	3.78
617529	35-752	3	SPDT NO/NC	Use magnet	Leaded SD	7.05	6.56	6.10
617545	35-756	2	SPDT NO/NC w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount			

**Knife Switch** • Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

617490	35-730	4	DPDT on-off-on	Plastic handle	Screw terminal	\$4.09	\$3.99	\$3.91
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**Proximity Magnets** • Current rating: 0.3A @ 30VAC/VDC

Part No.	Product No.	Fig.	Contact Form	Terminal Type	1	10	100
617537	35-754	5	SPST NO	Side wire leads, 1" gap, subminiature surface mount	\$8.39	\$7.67	\$7.01
617561	35-762	—	SPST NO	Wire leads, 1/4" gap, recessed magnet, panel mount 3.8"	6.49	5.91	5.40

♦ Blue Part No. = Limited Quantity Available

Additional Tactile, Specialty, Slide, Rotary, Rotary DIP and DIP Switches available at [www.Jameco.com](http://www.Jameco.com).

## Slide Switch

- Two mounting flanges
- 6/6 nylon plastic housing

- Top actuation
- Phenolic insulated

- Nylon actuator

Part No.	Pins	Type	Description	Housing Material	Dimensions			Lead Spacing		Contact Rating	Lead Length	Actuator Height	Pricing			
					L"	W"	D"	A"	B"				1	10	100	250
109171	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	\$ .31	\$ .26	\$ .23	\$ .19

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## OMRON

## B3F Series Miniature Tactile Key Switch

- Low profile and easy mounting
- Lead spacing: A = 0.18"; B = 0.26"
- Operating force: high-force 260g
- Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.
- Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Dimensions: 4.3 mm x 6.5 mm



Part No.	Type	1	25	50	100
162886	B3F-1000	\$ .45	\$ .40	\$ .36	\$ .33



## Tactile Switches

- Contact rating: 50mA @ 12VDC
- Contact form: SPST (on)-off
- Actuator: P/N 621077 – low profile gray
- P/N 621085 – low profile black
- PC terminal
- ♦ Blue Part No. = Limited Quantity Available



Part No.	Product No.	Body Size	1	10	100
621077	35-1451	12mm	\$ .99	\$ .92	\$ .86
621085	35-1452	6mm	.89	.82	.78



## Inline Cord Switch

- Contact form: SPST on-off
- Contact rating: 6A @ 20VDC
- Terminal: solder • Black plastic body



Part No.	Product No.	1	10	100
621270	35-1851	\$4.75	\$4.56	\$4.38

## Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST
- 171872: 500mA @ 100VDC • Size: 0.53"L x 0.1"Dia.
- 164081: 1A @ 250VAC; 1A @ 50VDC • Size: 1.43"L x 0.2"Dia.



Part No.	Cross Ref. No.	1	10	100	1000
171872	MKA14103	\$ .79	\$ .64	\$ .46	\$ .41
164081	MRS1	.62	.53	.38	.285

## Switch Assortment Kit

- Includes:
- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 165 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523, 21936, 21910, 26332, 26315, 21979, 21952, 26367, 26358), pg 152
- 10 ea. slide switches (109171), below
- 10 ea. pushbutton switches (26623, 26649), pg 151
- 10 ea. DIP switches (38818, 38843), pg 156
- 10 ea. tactile switches (153251), above left



SAVE \$42

Part No.	Description	Wt. (lbs.)	1	10
85059	150 pcs. switch kit	5.0 ...	\$118.75	\$106.74





### CD Series 8mm DIP Coded Rotary Switches

- Contact rating: 0.4W max. @ 20VAC or VDC max.
- Insulation resistance: 100MΩ min. @ 250VAC min.
- Movable contacts and stationary contacts: copper alloy with gold plate over nickel plate
- Terminals: copper alloy with tin-lead alloy over nickel plate
- Cover and base, knob: glass filled nylon, (UL94V-0)
- Contact resistance: 50mΩ max. initial
- Dielectric strength: 250V<sub>RMS</sub> min.
- Actuator: LCP (UL94V-0), internal o-ring seal standard



581394

Part No.	Product No.	Function	Actuator	Termination	Mech/Electrical Life	1	10	100	1000
581394	CD16CMOSK	Hexadecimal compliment, 16-pos.	Flush, screwdriver slot	Surface mount	20,000 actuations	\$5.09	\$4.95	\$4.80	\$4.72
581301	CD16RK1CK	Hexadecimal, 16-pos.	Knob	PC thru-hole	20,000 actuations	6.05	5.70	5.55	5.45

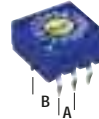


### Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Life: 10,000 cycles min.
- Max. switching load rating: 25mA @ 24VDC
- Material: 94V-0 grade, UL approved fire retardant plastic
- Terminals: PC pin leads
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"



139636



139652

Part No.	Cross Ref. No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139636	ERD110RS(DRD10)	10	Top	BCD	.39 x .39 x .20	\$2.79	\$2.55	\$2.29	\$2.09
139652	ERD116RS	16	Top	Hex	.39 x .39 x .20	2.99	2.79	2.55	2.29



### Rotary Switches

- Contact rating: 30VDC @ 0.3A
- Contact resistance: 30mΩ
- Mounting hole diameter: 3/8"
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101566 – plastic casing)
- Make before break
- Insulation resistance: 10MΩ min.
- Lug size: 0.07"
- Layers: 1
- Solder lugs
- Panel mount



101574

Includes: Washer and nut

Part No.	Cross Ref. No.	Poles	Position	Shaft Size (L" x Dia.)	1	10	50
101532	RS0261	1	12	0.46 x 0.25	\$1.29	\$1.10	\$0.82
101574	RS022	2	6	0.46 x 0.25	1.35	1.15	.86
101566	RS023	3	4	1.16 x 0.25	1.95	1.59	1.25
101558	RS024	4	3	0.46 x 0.25	1.75	1.49	1.38



### 76 Series Thru-Hole DIP Switches

- SPST rocker
- Carrying current: 5A
- Dielectric strength: 500V<sub>RMS</sub>
- Spring ball contact



Lower \$\$\$

PSB – Piano DIP Style (UP is off), SPST

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Position	Length (in.)	1	10	100
696781	76PSB02ST	2	0.280	\$1.39	\$1.29	\$1.17
696790	76PSB02T	2	0.280	1.28	1.19	1.08
696802	76PSB04ST	4	0.480	1.15	1.05	.97
696811	76PSB04T	4	0.480	1.05	.99	.89
788109	76PSB05ST	5	0.580	1.49	1.35	1.24
788117	76PSB06ST	6	0.680	1.65	1.50	1.37
788125	76PSB06T	6	0.680	1.98	1.77	1.62
469634	76PSB08	8	0.880	3.25	2.89	2.60
696829	76PSB08ST	8	0.880	1.39	1.27	1.16
788133	76PSB08T	8	0.880	1.39	1.25	1.14
469651	76PSB09	9	0.980	3.35	3.00	2.70
469677	76PSB10	10	1.080	2.45	2.33	2.17
788141	76PSB10ST	10	1.080	1.85	1.66	1.52
788150	76PSB12T	12	1.280	1.89	1.72	1.57

Raised Style, DPDT

Part No.	Product No.	Position	Length (in.)	1	10	100
788310	76SD01T	1	0.380	\$4.75	\$4.32	\$3.96

Toggle DIP Style, SPDT

Part No.	Product No.	Position	Length (in.)	1	10	100
788328	76STC04T	4	0.780	\$5.15	\$4.64	\$4.25

Military Qualified, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
696773	76MSB08S	8	0.880	\$9.89	\$8.99	\$7.99
788088	76MSB10S	10	1.080	5.59	5.06	4.64

This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend
New Sale Lower\$ QtySave

### Tri-State DIP Switch

- Switch contacts: bused, tri-state
- 8 positions
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- Two isolated buses
- Compatible socket, use P/N 37373, pg 135
- Pre-tinned leads



Part No.	Cross Ref. No.	1	10	50	100
138992	ETA108E	\$1.99	\$1.79	\$1.59	\$1.39



### DIP Switches

- Standard profile
- 2A @ 5VDC or 25mA @ 25VDC



Part No.	Product No.	Pos.	Length	1	10	50
617908	35-964	4	0.48" ..	\$1.75	\$1.59	\$1.44
617916	35-968	8	0.88" ....	2.35	2.16	1.94
617924	35-970	10	1.08" ....	2.75	2.49	2.24



### 90B/90HB Series DIP Switches

Machine Insertable MIDIP

- Tested for TO-116 equipment
- Carry current: 3A
- High-pressure reliable contacts
- Dielectric strength: 500V<sub>RMS</sub>

For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)

Part No.	Product No.	Pos.	Description	Length (in.)	1	10	100
788467	90B06ST	6	Thru-hole	0.670	\$1.39	\$1.26	\$1.15
788475	90B10ST	10	Thru-hole	1.070	1.99	1.79	1.64
697055	90B08ST	8	Thru-hole	0.870	1.15	1.05	.97
788483	90HBW02PT	2	SMT (gull wing)	0.270	1.25	1.11	1.02
788491	90HBW04PT	4	SMT (gull wing)	0.470	1.29	1.18	1.08
788504	90HBW06PT	6	SMT (gull wing)	0.670	1.45	1.28	1.17
875190	90HBW08PT	8	SMT (gull wing)	0.870	1.65	1.47	1.34

For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)

RSB – Raised Rocker Style, Sealed, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
788168	76RSB02ST	2	0.280	\$1.15	\$1.05	\$0.96
788176	76RSB03ST	3	0.380	1.35	1.22	1.11
696845	76RSB04ST	4	0.480	1.35	1.24	1.13
788184	76RSB04T	4	0.480	1.15	1.05	.96
788192	76RSB06T	6	0.680	1.35	1.22	1.12
469845	76RSB08S	8	0.880	2.09	2.01	1.91
696853	76RSB08ST	8	0.880	1.49	1.38	1.27
788205	76RSB08T	8	0.880	1.29	1.18	1.08
469861	76RSB09S	9	0.980	2.25	2.05	1.86
788213	76RSB09ST	9	0.980	1.59	1.41	1.30
788221	76RSB10ST	10	1.080	1.55	1.40	1.29

Blue Part No. = Limited Quantity Available

SB – Raised Rocker Style, SPST

Part No.	Product No.	Position	Length (in.)	1	10	100
696870	76SB02ST	2	0.280	\$1.05	\$0.96	\$0.88
788230	76SB02T	2	0.280	1.09	.99	.90
788248	76SB03T	3	0.380	1.19	1.06	.97
696888	76SB04ST	4	0.480	1.05	.96	.88
696896	76SB04T	4	0.480	.89	.84	.76
788256	76SB05T	5	0.580	1.25	1.12	1.03
696909	76SB06ST	6	0.680	1.45	1.33	1.22
788264	76SB06T	6	0.680	1.25	1.11	1.02
696917	76SB08ST	8	0.880	1.45	1.32	1.19
696933	76SB08T	8	0.880	1.39	1.29	1.19
788272	76SB09T	9	0.980	1.49	1.35	1.24
788281	76SB10ST	10	1.080	1.59	1.44	1.32
788299	76SB10T	10	1.080	1.55	1.37	1.26
788301	76SB12ST	12	1.280	1.65	1.50	1.37

## Grayhill 78 Series Thru-Hole DIP Switches

- Spring ball contact
- Carrying current: 4A
- Dielectric strength: 500V<sub>RMS</sub>



### Raised Slides

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Pos.	Description	Length (in.)	1	10	100
472489	78B04S	4	SPST	0.480	\$2.05	\$1.95	\$1.92
788336	78B04T	4	SPST	0.480	1.25	1.11	1.02
696950	78B04ST	4	SPST	0.480	.93	.86	.79
788344	78B05ST	5	SPST	0.580	1.29	1.15	1.06
472542	78B06S	6	SPST	0.680	1.69	1.58	.97
788352	78B06ST	6	SPST	0.680	1.19	1.08	.99
788361	78B07ST	7	SPST	0.780	1.45	1.28	1.18
472593	78B08S	8	SPST	0.880	2.35	2.22	2.11
696968	78B08ST	8	SPST	0.880	1.05	.96	.88
696984	78B08T	8	SPST	0.880	1.19	1.11	1.02
788379	78B10T	10	SPST	1.080	1.49	1.34	1.23
788387	78B12SRA	12	SPST, right angle	1.280	3.29	2.97	2.72
788395	78B12SRAT	12	SPST, right angle	1.280	3.35	3.03	2.77
788408	78F01T	1	2PST	0.280	2.15	1.93	1.77
788416	78H01ST	1	4PST	0.480	1.89	1.70	1.56
788424	78H02ST	2	4PST	0.880	2.15	1.90	1.75
788432	78K01T	1	DPDT (no common)	0.480	3.15	2.87	2.63
788441	78K02ST	2	DPDT (no common)	0.880	3.69	3.34	3.07

### Recessed Slides

696992	78RB04ST	4	SPST	0.480	\$ .93	\$ .86	\$ .78
788459	78RB05ST	5	SPST	0.580	1.39	1.24	1.13

## Grayhill 94H Series Rotary DIP Switches

- Carry current: 100mA @ 50VDC
- Dielectric strength: 250V<sub>RMS</sub>

For more Grayhill DIP Switches visit [www.Jameco.com](http://www.Jameco.com)



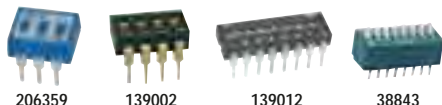
Part No.	Cross Ref. No.	Pos.	Code Type	Description	1	10	100
788512	94HAB08RAT	8	Octal	Flush actuator, right angle, thru-hole	\$3.09	\$2.81	\$2.58
788521	94HAB08T	8	Octal	Flush actuator, PC mount	3.05	2.75	2.52
697071	94HAB10RAT	10	BCD	Flush actuator, right angle, thru-hole	3.05	2.91	2.85
697080	94HAB10T	10	BCD	Flush actuator, thru-hole	2.69	2.61	2.47
788555	94HBB10T	10	BCD	0.270" actuator, thru-hole	3.09	2.81	2.58
788571	94HCB10T	10	BCD	0.170" actuator, thru-hole	3.09	2.81	2.58
697098	94HAB16RAT	16	HEX	Flush actuator, right angle, thru-hole	3.05	2.95	2.75
697101	94HAB16T	16	HEX	Flush actuator, thru-hole	2.89	2.59	2.47
788539	94HAB16WT	16	HEX	0.270" actuator, surface mount	3.09	2.81	2.58
788547	94HAC16T	16	HEX	0.170" actuator, thru-hole	3.55	3.00	2.49
788563	94HBB16T	16	HEX	0.270" actuator, PC mount	3.65	3.31	3.04
788580	94HFC16T	16	HEX	Flush actuator, PC mount	3.65	3.31	3.04



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## JAMECO ValuePro DIP Switches



- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing
- Pre-tinned leads

Compatible Socket Chart, see page 135 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109059	112193	38827	37162	38801	39378
38820	51571	38843	37373	38834	37162
139003	51571	139012	37373	101856	38113
109057	112193	139002	51571	38797	38608
38818	51571	38826	37162		
206359	51571	38798	38608		

Part No.	Cross Ref. No.	Pos.	1	10	100	1000
109059	206-2	2	\$.75	\$.68	\$.61	\$.55
38820	206-4	4	.65	.55	.49	.45
139003	206-4LP	4	.79	.70	.55	.44
38827	206-6	6	.99	.89	.79	.72
38843	206-8	8	1.07	.96	.87	.77
139012	206-8LP	8	.85	.76	.61	.47
38798	206-10	10	.95	.86	.68	.59
38801	206-12	12	1.23	1.16	1.09	.73

### Other Manufacturers — Great Deals

109057	206-2*	2	\$.83	\$.74	\$.68	\$.56
206359	206-3*	3	.82	.74	.59	.443
38818	206-4	4	.44	.432	.366	.30
139002	206-4LP*	4	.47	.441	.303	.262
38826	206-6*	6	.88	.83	.57	.48
38834	206-7*	7	.95	.86	.77	.62
101856	206-9*	9	.78	.73	.61	.46
38797	206-10*	10	.88	.83	.77	.481

\* Manufacturer may vary

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we are unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Alcoswitch Rotary DIP Switch Thru Hole

- Rotor: PA6T UL94V-0, white
- Contact rating: 0.4W @ 20VDC
- Life expectancy: 10,000 rotations
- Contact resistance: 50mΩ max.
- Dielectric strength: 300VAC
- Fixed contact/terminal: copper alloy, gold flash over nickel
- Frame and case: PPS UL94V-0, black
- Moving contact: copper alloy, gold flash over nickel
- Insulation resistance: 1000mΩ @ 100VDC
- Code type: hex
- Size: 0.394"W x 0.394"D x 0.236"H

NEW



Part No.	Product No.	1	10	100
1809389	DRD16CE04	\$5.39	\$5.05	\$4.79

## Alcoswitch SMT DIP Switch

- Base/cover: PPS, UL94V-0
- Actuator: LCP, UL94V-0
- Life cycle: 1,000 cycles
- Dielectric strength: 300VAC
- Contacts and terminals: copper alloy, gold over nickel plating
- Insulation resistance: 100mΩ min.
- Contact rating: 100mA @ 5VDC (non switching); 25mA @ 24VDC (switching)
- Length: 0.444"
- Contact resistance: 100mΩ max.
- Pos.: 8

NEW



Part No.	Product No.	1	10	100
835972	GDH08S04	\$3.69	\$3.45	\$3.25

## Grayhill 16-Button Keypad Switch

- 1/2" button centers
- Flange mounted
- Top surface or sub-surface mounting
- Voltage breakdown: 250VAC
- Contact resistance: 10Ω maximum (compatible with MOS, TTL, and DTL)
- Snap-dome contact provides positive feedback
- Rating @ 24VDC: 10mA resistive
- Life expectancy: 3,000,000 operations per button



Part No.	Product No.	1	10	100
302025	86BB2-006	\$21.49	\$19.95	\$17.95

## JAMECO ValuePro 16-Button Numeric Keypad

- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H



Part No.	Description	1	10	100
169245	Numeric keypad	\$8.79	\$7.78	\$7.00

## JAMECO ValuePro 12-Button Telephone Keypad

- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H



Part No.	Description	1	10	100
190562	Numeric keypad	\$8.75	\$7.45	\$5.59

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Recommended connector: P/N 103191 header and P/N 100766 pin
- Size (housing): 4.7"W x 1.7"H x 0.4"T



196171



152063

\* Minimum order 10 pieces

Part No.	Description	1	10	100
196171	2x8 matrix keypad	\$16.95	\$15.29	\$13.75
152063	4x4 matrix keypad	14.95	13.49	11.95
103191	Header housing (10-pin)	.42	.39	.36
100766	Header pin	*	.154	.121

**Panasonic**

## Signal Relays

**Lower \$\$\$**

For more Panasonic Relays  
 visit [www.Jameco.com](http://www.Jameco.com)

### AGQ Series Low Signal Relay

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
760341	AGQ2004H	1A	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.28 x 0.21	\$2.99	\$2.95	\$2.67

### AGQ Series Low Signal Relays (SMD)

760368	AGQ200A03	2B	DPDT	3	64.2	46.7	1.0	0.3	8	0.42 x 0.28 x 0.21	\$4.69	\$4.25	\$4.09
842540	AGQ200A12	2B	DPDT	12	1028	11.7	1.0	0.3	8	0.42 x 0.28 x 0.21	3.15	3.09	2.77

### AGN Series Compact Low Signal Relay

842494	AGN2004H	3A	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.22 x 0.35	\$2.59	\$2.55	\$2.48
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### AGN Series Compact Low Signal Relays (SMD)

760325	AGN200A03	4B	DPDT	3	64.2	46.7	1.0	0.3	8	0.42 x 0.22 x 0.35	\$3.39	\$3.12	\$2.77
842523	AGN200A4H	4B	DPDT	4.5	145	31	1.0	0.3	8	0.42 x 0.22 x 0.35	2.89	2.75	2.61

### DS Series Low Signal Relays (High Sensitivity & Standard Coils)

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
760616	DS1E-S-DC5V	5C	SPDT	5	125	—	2.0	2.0	5	0.59 x 0.39 x 0.37	\$6.05	\$5.75	\$5.45
760595	DS1E-S-DC12V	5C	SPDT	12	720	—	2.0	2.0	5	0.59 x 0.39 x 0.37	5.99	5.63	5.27
842734	DS1E-M-DC12V	5C	SPDT	12	360	—	2.0	2.0	5	0.59 x 0.39 x 0.37	4.25	3.85	3.51
842769	DS1E-M-DC24V	5C	SPDT	24	1440	—	2.0	2.0	5	0.59 x 0.39 x 0.37	4.25	3.99	3.74
842849	DS2E-M-DC5V	6D	DPDT	5	62.5	80	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.81	2.61
842953	DS2E-S-DC5V	6D	DPDT	5	125	40	2.0	2.0	8	0.79 x 0.39 x 0.37	3.65	3.64	3.23
760691	DS2E-S-DC9V	6D	DPDT	9	405	—	2.0	2.0	8	0.79 x 0.39 x 0.37	4.15	3.82	3.39
842793	DS2E-M-DC12V	6D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.80	2.61
760659	DS2E-M-DC12V	6D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.80	2.61
760632	DS2E-M-DC12V-R	6D	DPDT	12	360	33.2	2.0	2.0	8	0.79 x 0.39 x 0.37	3.05	2.96	2.75
842902	DS2E-S-DC12V	6D	DPDT	12	720	16.6	2.0	2.0	8	0.79 x 0.39 x 0.37	3.69	3.55	3.40
842814	DS2E-M-DC24V	6D	DPDT	24	1440	16.6	2.0	2.0	8	0.79 x 0.39 x 0.37	2.99	2.86	2.72
842937	DS2E-S-DC24V	6D	DPDT	24	2880	8.3	2.0	2.0	8	0.79 x 0.39 x 0.37	3.69	3.53	3.25
760675	DS2E-S-DC48V	6D	DPDT	48	11520	4.1	2.0	2.0	8	0.79 x 0.39 x 0.37	4.95	4.73	4.50
843041	DS4E-S-DC12V	7E	4PDT	12	720	—	2.0	2.0	14	1.39 x 0.39 x 0.37	7.09	6.77	6.45

\*Reverse polarity

### DS Series Dual Coil Latching Relays (High Sensitivity & Standard Coils)

842873	DS2E-ML2-DC12V	6F	DPDT	12	400	30	2.0	2.0	10	0.79 x 0.39 x 0.39	\$3.55	\$3.33	\$3.10
843016	DS4E-ML2-DC12V	7G	DPDT	12	400	—	2.0	2.0	16	1.39 x 0.39 x 0.39	6.09	5.48	4.93

### DS2Y Series Low Signal Relay

842996	DS2Y-S-DC5V	8H	DPDT	5	125	40	2.0	2.0	8	0.79 x 0.39 x 0.39	\$2.49	\$2.29	\$2.09
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### TK Series Low Signal Relays

843366	TK1-5V	9I	SPDT	5	178	28.1	2.0	0.5	6	0.42 x 0.35 x 0.16	\$4.29	\$3.99	\$3.55
843331	TK1-12V	9I	SPDT	12	1028	11.7	2.0	0.5	6	0.42 x 0.35 x 0.16	4.29	3.99	3.55

### TN Series Low Signal Relays

843454	TN2-5V	10J	DPDT	5	178	28.1	1.0	0.5	8	0.55 x 0.22 x 0.39	\$3.29	\$3.12	\$2.65
761504	TN2-9V	10J	DPDT	9	579	15.5	1.0	0.5	8	0.55 x 0.22 x 0.39	3.79	3.49	2.99
843391	TN2-12V	10J	DPDT	12	1028	11.7	1.0	0.5	8	0.55 x 0.22 x 0.39	3.55	3.25	2.95
843420	TN2-24V	10J	DPDT	24	2880	8.3	1.0	0.5	8	0.55 x 0.22 x 0.39	3.75	3.38	3.20

### TQ Series Low Signal Relays

761563	TQ2-3V	11K	DPDT	3	64.3	46.7	1.0	0.5	10	0.55 x 0.35 x 0.20	\$2.55	\$2.35	\$2.09
761766	TQ2SA-3V	12L	DPDT	3	64.3	46.7	2.0	0.5	10	0.55 x 0.35 x 0.20	★	Call	Call
761580	TQ2-4.5V	11K	DPDT	4.5	144	31.1	1.0	0.5	10	0.55 x 0.35 x 0.20	2.49	2.35	2.09
761782	TQ2SA-4.5V	12L	DPDT	4.5	145	31.3	2.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.69	2.39
761601	TQ2-5V	11K	DPDT	5	178	28.1	1.0	0.5	10	0.55 x 0.35 x 0.20	2.49	2.35	2.09
761803	TQSS-5V	13L	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.69	2.35
843542	TQ2SA-5V	12L	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	2.75	2.58	2.41
761627	TQ2-6V	11K	DPDT	6	257	23.3	1.0	0.5	10	0.55 x 0.35 x 0.20	2.69	2.49	2.19
843500	TQ2SA-12V	12L	DPDT	12	1028	11.7	2.0	0.5	10	0.55 x 0.35 x 0.20	2.75	2.40	2.05
843471	TQ2-24V	11K	DPDT	24	2880	8.3	1.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.71	2.53
843526	TQ2SA-24V	12L	DPDT	24	2880	8.3	2.0	0.5	10	0.55 x 0.35 x 0.20	3.49	3.15	2.79

★ Please call or visit our website for minimum order quantity and pricing.

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Figures continued on next page.

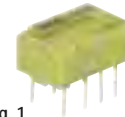


Fig. 1

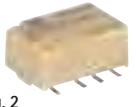


Fig. 2

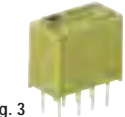


Fig. 3

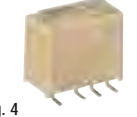


Fig. 4

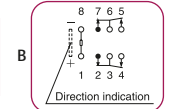
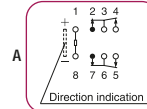


Fig. 5

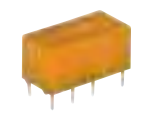
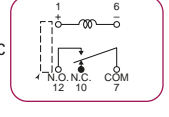


Fig. 6

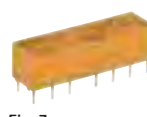
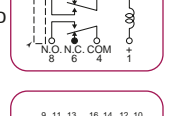


Fig. 7

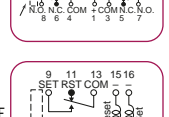


Fig. 8

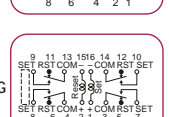


Fig. 9

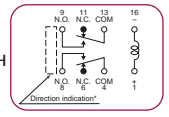


Fig. 10

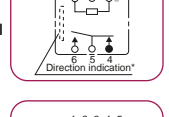


Fig. 11

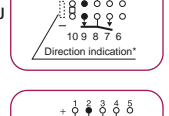
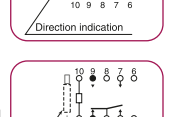


Fig. 12



Electromech

Panasonic®

## Signal Relays (Continued)

Lower \$\$\$

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## TQ Series Dual Coil Latching Relays

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
761707	TQ2-L2-3V	11M	DPDT	3	45	66.7	1.0	0.5	10	0.55 x 0.35 x 0.20	\$3.15	\$2.89	\$2.55
761723	TQ2-L2-4.5V	11M	DPDT	4.5	101.2	44.4	1.0	0.5	10	0.55 x 0.35 x 0.20	3.19	2.95	2.59
761660	TQ2-L2-5V	11M	DPDT	5	125	40.0	1.0	0.5	10	0.55 x 0.35 x 0.20	3.09	2.85	2.45
843569	TQ2SA-L2-5V	12N	DPDT	5	178	28.1	2.0	0.5	10	0.55 x 0.35 x 0.20	3.45	3.00	2.55
761686	TQ2-L2-24V	11M	DPDT	24	1920	12.5	1.0	0.5	10	0.55 x 0.35 x 0.20	2.89	2.72	2.55

## TX Series Low Signal Relays

761871	TX2-L2-5V	14O	DPDT	3	64.3	46.7	1.0	—	10	0.59 x 0.29 x 0.32	\$3.35	\$3.25	\$2.89
761846	TX2-4.5V	15P	DPDT	4.5	145	31.0	2.0	—	8	0.59 x 0.29 x 0.32	2.19	2.05	1.99
761977	TX2SL-4.5V	16Q	DPDT	4.5	145	31.0	2.0	—	8	0.59 x 0.29 x 0.32	2.95	2.69	2.39
843649	TX2SA-5V	16Q	DPDT	5	178	28.1	2.0	—	8	0.59 x 0.29 x 0.32	2.79	2.69	2.29
843614	TX2SA-12V	16Q	DPDT	12	1028	11.7	2.0	—	8	0.59 x 0.29 x 0.32	2.95	2.69	2.39
843585	TX2-24V	15P	DPDT	24	4114	5.8	2.0	—	8	0.59 x 0.29 x 0.32	3.15	3.02	2.88
761897	TX2SA-24V	16Q	DPDT	24	4114	5.8	2.0	—	8	0.59 x 0.29 x 0.32	3.45	3.19	2.79
761951	TX2SL-24V	16Q	DPDT	24	4114	5.8	2.0	—	8	0.59 x 0.29 x 0.32	3.45	3.19	2.85
761854	TX2-48V	15P	DPDT	48	8533	5.6	2.0	—	8	0.59 x 0.29 x 0.32	4.25	3.99	3.55

## TXS Series High Sensitivity Low Signal Relays

762056	TXS2-4.5	15P	DPDT	4.5	405	11.1	1.0	—	8	0.59 x 0.29 x 0.32	\$3.35	\$2.92	\$2.48
762030	TXS2-12V	15P	DPDT	12	2880	4.2	1.0	—	8	0.59 x 0.29 x 0.32	3.35	2.92	2.48

## RK Series High Frequency Relay (1.5GHz)

843323	RK1-5V	17R	SPDT	5	125	40.7	0.5	—	9	0.80 x 0.44 x 0.38	\$8.99	\$8.35	\$7.39
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Panasonic®

## Power Relays

Lower \$\$\$

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## DSP Series General Purpose Relays

Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Rating (A)		Pins	Dimensions (L" x W" x H")	Pricing		
							30VDC	125VAC			1	25	50
843075	DSP1-DC12V	18S	DPST-NO/NC	12	480	25.0	5.0	5.0	6	0.79 x 0.43 x 0.41	\$6.29	\$5.72	\$5.21
843104	DSP1-DC24V	18S	DPST-NO/NC	24	1920	12.5	5.0	5.0	6	0.79 x 0.43 x 0.41	6.29	5.72	5.21

## HC Series Miniature Power Relays

760798	HC2-H-DC12V	19T	DPDT	12	160	75.0	—	7.0	8	1.07 x 0.82 x 1.38	\$7.85	\$7.29	\$6.45
760835	HC2-HP-DC24V	19T	DPDT	24	650	37.0	—	7.0	8	1.07 x 0.82 x 1.38	9.75	8.99	7.49
760894	HC4-HP-DC12V	19U	4PDT	12	160	75.0	—	5.0	14	1.07 x 0.82 x 1.38	9.15	8.49	7.55
760851	HC4-H-AC24V	19U	4PDT	24VAC	—	50.0	—	5.0	14	1.07 x 0.82 x 1.38	10.95	9.99	8.45

## HL Series Space Saving Power Relays

760931	HL1-HTM-DC24V	20V	SPDT	24	650	37.0	15A @ 125VAC	5	1.69 x 0.81 x 1.35	\$6.89	\$6.21	\$5.59
760991	HL2-HP-DC24V	20W	DPDT	24	650	37	10A @ 250VAC	8	1.07 x 0.82 x 1.39	7.59	6.82	6.14

## JQ Series High Noise Immunity Power Relays

761037	JQ1-5V	21X	SPDT	5	62.5	80.0	5.0	5.0	5	0.79 x 0.39 x 0.61	\$2.99	\$2.89	\$2.59
761045	JQ1AP-12V	21Y	SPST-NO	12	720	16.7	10.0	5.0	4	0.79 x 0.39 x 0.61	★	Call	Call

## JS Series Power Relays

843155	JS1-5V	22Z	SPDT	5	72	69.4	—	10.0	5	0.87 x 0.63 x 0.63	\$1.15	\$1.05	\$0.89
843121	JS1-24V	22Z	SPDT	24	1600	15.0	—	10.0	5	0.87 x 0.63 x 0.63	1.19	1.09	.95
761088	JS1-48V	22Z	SPDT	48	6400	7.5	—	10.0	5	0.87 x 0.63 x 0.63	1.49	1.39	1.25
843171	JS1A-24V	22a	SPST-NO	24	1600	15.0	—	10.0	5	0.87 x 0.63 x 0.63	★	Call	Call

## JTN Series Economical Relays (for Appliance &amp; Automotive)

761141	JTN1AS-PA-F-DC12V	23b	SPST-NO	12	180	—	—	30@277	4	1.26 x 1.06 x 0.80	★	Call	Call
761184	JTN1AS-TMP-F-DC12V	24c	SPST-NO	12	180	—	—	30@277	—	1.27 x 1.08 x 1.10	2.49	2.45	2.39
761168	JTN1AS-PA-F-DC24V	23b	SPST-NO	24	720	—	—	30@277	4	1.26 x 1.06 x 0.80	2.89	2.75	2.49
761213	JTN1S-PA-F-DC24V	23b	SPDT	24	720	—	—	30@277	4	1.26 x 1.06 x 0.80	2.69	2.59	2.55

1 Plug-in 2 PCB terminal 3 Top-mount 4 High caps ★ Please call or visit our website for minimum order quantity and pricing

Figures Continued from previous page



Fig. 13

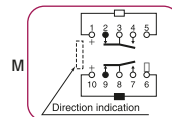


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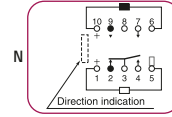


Fig. 15



Fig. 16



Fig. 17

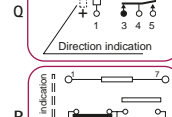


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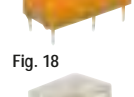
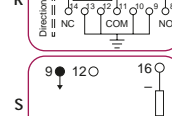


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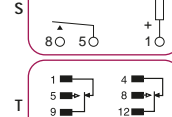


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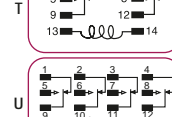


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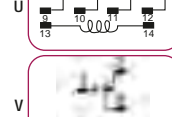


Fig. 22



Fig. 23

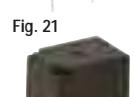
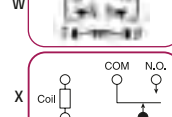
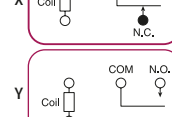


Fig. 24



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♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

**Panasonic**

**JW Series Power Relays**

**Power Relays (Continued)**

**Lower \$\$\$**

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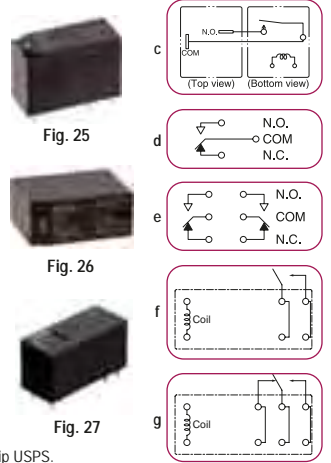
Part No.	Product No.	Fig.	Contact Form	Coil Volt. (VDC)	Coil Resist. (Ohms)	Coil Curr. (mA)	Contact Rating (A)	30VDC	A@VAC	Pins	Dimensions (L" x W" x H")	Pricing		
												1	25	50
761256	JW1AFSN-DC12V	25d	SPST-NO	12	270	44	10.0	10@250	5	1.13 x 0.50 x 0.79	★	Call	Call	
761310	JW1FSN-DC5V	25d	SPDT	5	47	106	10.0	10@250	5	1.13 x 0.50 x 0.79	★	Call	Call	
843201	JW1FSN-DC24V	25d	SPDT	24	1100	22	10.0	10@250	5	1.13 x 0.50 x 0.79	2.05	1.89	1.69	
761299	JW1FSN-B-DC24V	25d	SPDT	24	1100	22	10.0	10@250	5	1.13 x 0.50 x 0.79	★	Call	Call	
761336	JW2SN-DC5V	26e	DPDT	5	47	106	5.0	5@250	6	1.13 x 0.50 x 0.79	★	Call	Call	
843235	JW2SN-DC12V	26e	DPDT	12	270	44	5.0	5@250	6	1.13 x 0.50 x 0.79	2.19	2.09	1.85	
843260	JW2SN-DC24V	26e	DPDT	24	1100	22	5.0	5@250	6	1.13 x 0.50 x 0.79	2.39	2.19	1.95	
843294	JW2SN-DC48V	26e	DPDT	48	4400	11	5.0	5@250	6	1.13 x 0.50 x 0.79	★	Call	Call	

5 Class B insulation ★ Please call or visit our website for minimum order quantity and pricing

**ALZ Series Power Relays**

760464	ALZ22B12	27f	SPST-NO	12	360	33.3	—	16@250	8	1.13 x 0.49 x 0.62	\$1.75	\$1.68	\$1.61
760448	ALZ12B12	27g	SPDT	12	360	33.3	—	16@250	6	1.13 x 0.49 x 0.62	1.75	1.70	1.64

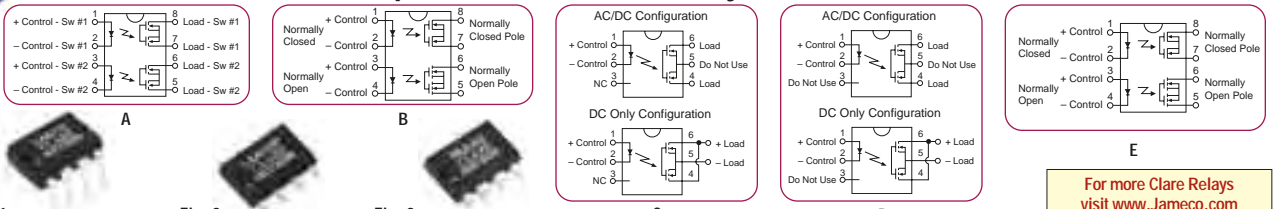
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**CLARE**

**OptoMOS® Solid State Relays**

**Lower \$\$\$**



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Part No.	Product No.	Package	Description	Fig.	Load Voltage (V)	Current Handling (mA)	On-Resistance (ohms)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (µA)	Switching Speed (on/off) (ms)	Pricing		
												1	25	50
1582903	LAA110	DIP-8	Dual single pole, 1-Form-A	1A	350	120	35	3750	5	1	3/3	\$3.45	\$3.15	\$2.89
1582911	LAA110P	Flatpack-8	Dual single pole, 1-Form-A	2A	350	120	35	3750	5	1	3/3	3.95	3.65	3.42
1582920	LAA110S	SOIC-8	Dual single pole, 1-Form-A	3A	350	120	35	3750	5	1	3/3	3.95	3.65	3.42
1582938	LAA120	DIP-8	Dual pole, 2-Form-A	1A	250	170	20	3750	5	1	5/5	4.99	4.19	3.45
1582946	LAA125S	DIP-8	Dual pole, 2-Form-A	1A	350	170	16	3750	5	1	5/5	4.75	3.99	2.89
1582954	LAA127	DIP-8	Dual pole, 2-Form-A	1A	250	200	10	3750	5	1	5/5	6.19	5.39	4.89
1582962	LBA110	DIP-8	Dual pole, 1-Form-A & 1-Form-B	1B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582971	LBA110P	Flatpack-8	Dual pole, 1-Form-A & 1-Form-B	2B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582989	LBA110S	SOIC-8	Dual pole, 1-Form-A & 1-Form-B	3B	350	120	35	3750	2	1	3/3	4.25	3.94	3.70
1582997	LCA110	DIP-6	Single pole, 1-Form-A	1C	350	120	35	3750	2	1	3/3	1.75	1.59	1.49
1583009	LCA110S	SOIC-6	Single pole, 1-Form-A	3C	350	120	35	3750	2	1	3/3	1.75	1.61	1.51
1583025	LCA120L	DIP-6	Single pole, 1-Form-A	1D	250	170	20	3750	5	1	5/5	2.99	2.49	2.29
1583041	LCA710	DIP-6	Single pole, 1-Form-A	1D	60	1000	0.5	3750	10	1	2.5/0.25	4.75	4.41	4.14
1583164	PLA132S	SOIC-6	Single pole, 1-Form-A	3D	50	600	1	3750	5	1	5/2	4.49	3.99	3.75
1583050	LCB110	DIP-6	Single pole, 1-Form-B	1C	350	120	35	3750	5	1	3/3	2.45	2.24	2.10
1583068	LCB120	DIP-6	Single pole, 1-Form-B	1D	250	170	20	3750	5	1	5/5	3.05	2.80	2.63
1583084	LCC110	DIP-8	Common input, 1-Form-C	1E	350	120	35	3750	8	1	4/4	3.35	2.99	2.79
1583092	LCC120	DIP-8	Common input, 1-Form-C	1E	250	170	20	3750	10	1	5/5	4.29	3.89	3.59
1583148	PAA140A	SOIC-8	Single pole, 2-Form-A	3A	400	250	8	3750	50	1	3/1	6.55	6.07	5.69

- Logic control levels
- Long life with reliable operation
- Moisture resistant
- Compatible with IC sockets
- Compact design/construction
- Excellent for PCB applications

**Aromat**

**CLARE**

**ECE**

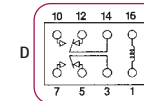
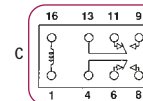
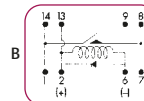
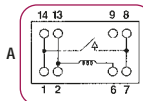
**DIP Relays**



106463



99901



Part No.	Product No.	Manufacturer	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing			
													1	10	50	100
106463	201A05	Excel Cell Elect.	3A	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	.78 x .25 x .20	.10 x .40 x .30	\$2.59	\$2.17	\$1.82	\$1.50
138431	2D1A05	Excel Cell Elect.	3B	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
139977	RSB5S	Shin Mei	1C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99311	DS2Y-S-DC12V	Aromat (NAIS)	1C	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	.79 x .40 x .43	.20 x .40 x .30	2.59	2.38	2.12	1.80
99901	LX200D00	Clare	1C	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
136549	DS4E-M-DC5V	Aromat	2D	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	1.40 x .40 x .36	.20 x .30 x .30	6.15	5.91	5.43	4.74
176313	DS4E-M-DC12V	Aromat	2D	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	1.40 x .40 x .36	.20 x .30 x .30	5.99	5.74	5.45	4.96

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend

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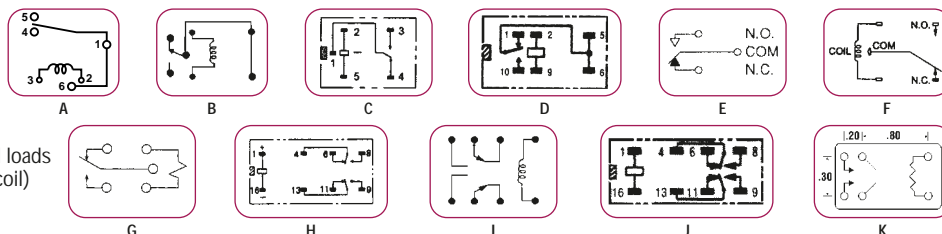
159

## Small High-Current PC Mount Relays

While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)

**144186:** For use with universal relay card (P/N 128910, see web)

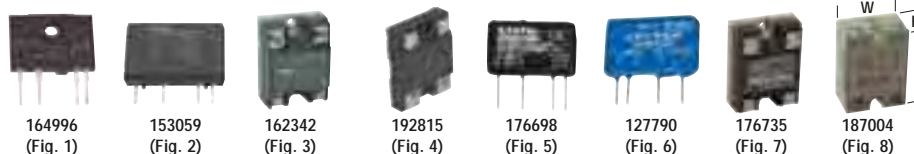


Part No.	Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing			
												1	10	50	100
145753	L90A-12W	Rayex	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	\$2.45	\$2.10	\$1.85	\$1.49
134949	L90-5W	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	2.29	2.06	1.65	1.24
174450	LU-5	Rayex	T81H5D215	2B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.99	1.79	1.65	1.59
187151	G5LE-1DC5	Omron	—	3C	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.41	1.38	1.34	1.27
187240	G5V-1-DC5	Omron	—	4D	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	1.65	1.62	1.57	1.48
664309	JW1FSN-DC12V	Nais (Aromat)	—	5E	SPDT	12VDC	270	250VAC/30VDC	10	5	1.13 x .51 x .79	1.85	1.65	1.40	1.24
172937	JS1-12V	Nais (Aromat)	T72M5D121-12	7F	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99	.89	.75
144186	JZC-22F	Velleman	VR15M121C	2G	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174432	LEG-12F	Rayex	T7CS5D12	2G	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	2.09	1.80	1.66	1.52
187282	G6A-234PSTUSDC5	Omron	—	8H	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.99	3.80	3.64	3.48
174378	LM2-12D	Rayex	RKA5DZ12	9I	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258	G5V-2-DC12	Omron	—	10J	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
215909	RKA-7DZ-12	P & B	—	6K	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39

\*Manufacturer may vary

## DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Zero crossing



Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing			
													1	10	50	100
Solid State Relays DC/AC Type																
164988	S101S02	Sharp	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	1	Solder Lead	UL/CSA	0.9 x .16 x .63	\$3.95	\$3.49	\$2.95	\$2.25
164996	S202TA1	Sharp	1.2VDC@20mA	DC/AC	SPST	200VAC	2.0A	4	1	Solder Lead	UL/CSA	0.9 x .16 x .63	5.45	4.89	3.92	2.94
153059	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	10.09	9.06	8.05	7.34
162342	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	19.15	17.27	15.55	13.99
162369	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	26.35	23.75	21.35	19.27
162406	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	27.59	24.84	22.44	20.16
192815	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	4	Screw Terminal	—	1.8 x 0.6 x 2.3	24.09	21.64	19.48	17.54
175214	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	5	Solder Lead	—	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
127790	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	2A	4	6	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	8.05	7.84	7.32	7.21
176698	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	5	Solder Lead	—	1.4 x 0.3 x 0.9	10.89	9.80	8.71	7.84
176719	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	7	Screw Terminal	—	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176735	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	7	Screw Terminal	—	1.7 x 0.9 x 2.3	44.39	39.95	31.96	23.97
186992	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	SPST	240VAC	10A	4	8	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	SPST	240VAC	20A	4	8	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.96	14.37	13.24
Solid State Relays DC/DC Type																
172591	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	5	Solder Lead	—	1.4 x 0.3 x 0.9	\$11.95	\$10.74	\$9.54	\$8.34
175222	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	5	Solder Lead	—	1.5 x 0.3 x 0.9	13.95	12.99	12.69	12.32
176648	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	7	Screw Terminal	—	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	7	Screw Terminal	—	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89

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## Solid State Relays

**NEW**



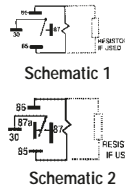
Part No.	Product No.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing		
												1	10	50
467487	AO241*	4V - 10VDC	DC/AC	SPST-NO	24V - 280V	0.025A - 1A	4	1	Solder leads	UL/CSA/CE	0.95 x 0.20 x 0.50	\$9.95	\$9.46	\$9.01
467508	ASO241*	4V - 10VDC	DC/AC	SPST-NO	24V - 280V	0.025A - 1A	4	1	Solder leads	UL/CSA/CE	0.70 x 0.20 x 0.50	10.09	9.59	9.14
184428	CX240D5	3V - 15VDC	DC/AC	SPST-NO	12V - 280V	0.06A - 5A	4	2	Solder leads	UL/CSA/VDE/CE	1.70 x 1.00 x 0.30	12.25	11.66	11.10
468156	CX240D5R**	3V - 15VDC	DC/AC	SPST-NO	12V - 280V	0.06A - 5A	4	2	Solder leads	UL/CSA/VDE/CE	1.70 x 1.00 x 0.30	10.09	9.59	9.14
468498	D2410	3V - 32VDC	DC/AC	SPST-NO	24V - 280V	10A	4	3	Screw terminal	UL/CSA/VDE/CE	1.80 x 0.90 x 2.30	34.25	32.63	31.09
139053	D2425	3V - 32VDC	DC/AC	SPST-NO	24V - 280V	25A	4	3	Screw terminal	UL/CSA/VDE/CE	1.80 x 0.90 x 2.30	34.69	33.05	31.48
468771	D2W203F*	3V - 32VDC	DC/AC	—	24V - 280V	0.06A - 2A	4	4	Solder leads	UL/CSA/CE	1.70 x 0.47 x 1.18	10.45	9.94	9.46
468789	D2W203F-11*	3V - 32VDC	DC/AC	—	24V - 280V	0.6A - 35A	4	4	Solder leads	UL/CSA/CE	1.70 x 0.47 x 1.18	11.09	10.55	10.05
480260	MCX240D5	3V - 15VDC	DC/AC	SPST-NO	12V - 280V	0.06A - 5A	4	5	Solder leads	UL/CE	1.70 x 0.40 x 1.00	12.25	11.66	11.10
480518	PF240D25***	3V - 15VDC	DC/AC	—	12V - 280V	0.06A - 25A	4	6	Solder leads	UL/VDE/CE	1.70 x 1.35 x 0.90	22.35	21.28	20.28
481027	TD2425*	3V - 32VDC	DC/AC	SPST-NO	24V - 280V	25A	4	3	Screw terminal	UL/CSA/VDE/CE	1.80 x 0.90 x 2.30	34.69	32.63	31.09
467903	CMX60D10	3V - 10VDC	DC/DC	SPST-NO	0V - 60V	0A - 10A	4	7	Solder leads	UL	1.70 x 1.00 x 0.30	33.19	31.61	30.09
184410	D1D40	3.5V - 32VDC	DC/DC	—	0V - 100V	40A	4	3	Screw terminal	UL/CE	1.80 x 0.90 x 2.30	74.99	71.47	68.06
478805	DMO063	3V - 10VDC	DC/DC	SPST-NO	0V - 60V	0A - 3A	4	8	Solder leads	—	0.70 x 0.20 x 0.50	17.35	16.49	15.70
480913	SDV2415	3.5V - 10VDC	AC/DC	—	12V - 128V	—	4	9	Solder pins	UL/CSA/CE	0.85 x 0.27 x 0.20	10.75	10.21	9.75
480972	TD1210*	3V - 32VDC	DC/AC	SPST-NO	24V - 140V	10A	4	3	Screw terminal	UL/CSA/VDE/CE	1.80 x 0.90 x 2.30	26.29	25.08	23.97
481001	TD2410*	3V - 32VDC	DC/AC	SPST-NO	24V - 280V	10A	4	10	Screw terminal	UL/CSA/VDE/CE	1.80 x 0.90 x 2.30	25.99	25.69	25.39

\* Triac output \*\* Random turn-on \*\*\* SCR output Blue Part No. = Limited Quantity Available

## Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

### VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A
- Terminal type: quick connect
- Coil voltage: 12VDC except P/N 171522 (5VDC)
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Part No.	Cross Ref. No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Ohms	Contact Schematic	Coil Voltage	Pins	Pricing			
									1	10	50	100
171460	LD1A-12F	VF4-81F11S01	1	SPST-NO	78	1	14VDC	4	\$2.29	\$2.11	\$1.87	\$1.55
171442	961A-1A12D	VF4-11F11	2	SPST-NO	90	1	14VDC	4	2.69	2.53	2.46	2.40
148583	LD12F	VF4-85F11	3	SPDT	78	2	12VDC	5	2.49	2.25	1.95	1.75
171433	961A-1C-12DM	VF4-81F11	3	SPDT	90	2	12VDC	5	2.99	2.69	2.25	1.65



## Industrial Relay

### S87R Series Low Cost 20A

- DPDT
- 0.250" quick connect solder
- Coil terminal: located perpendicular to switch terminals
- Nominal coil current: 188mA
- Material: silver and silver cadmium oxide
- Nominal power: 4.5W • Coil resistance: 12Ω
- Initial breakdown voltage: 1500V<sub>RMS</sub>, 60Hz
- Expected life: 1 million operations, mechanical; 50,000 operations @ rated load • Coil Volt.: 24VDC



Part No.	Product No.	1	10	25	50
552788	S87R11D2B1D124	\$45.19	\$43.07	\$41.02	\$39.70



## Potter & Brumfield General Purpose Relays

- Industry standard termination for quick installation
- UL/CSA approved
- Wide range of coil voltages for industrial and commercial applications
- Contact arrangements from SPDT to 4PDT



Part No.	Product No.	Tycos No.	Fig.	Contact Form	Contact Rating	Coil Voltage	Coil Resis. (Ω)	Coil Curr. (mA)	Mating Socket*		Pricing			
									Standard	DIN Rail	1	10	25	50
282247	K10P-11A15-120	4-1393144-0	1	DPDT	15A @ 30VDC; 15A @ 120VAC	120VAC	3,900	11	27E488/489	27E895	\$7.29	\$6.70	\$6.14	\$6.04
282255	K10P-11D15-12	5-1393144-5	1	DPDT	15A @ 30VDC; 15A @ 120VAC	12VDC	160	75	27E488/489	27E895	7.25	6.70	6.15	5.80
282263	K10P-11D15-24	5-1393144-7	1	DPDT	15A @ 30VDC; 15A @ 120VAC	24VDC	650	37	27E488/489	27E895	7.29	6.71	6.15	5.99
282301	KHAU-17D11-12	4-1393122-3	2	4PDT	3A @ 120VAC/28VDC (max)	12VDC	160	100	27E166	27E894	5.85	5.52	5.48	5.45
282343	KRPA-11AG-120	2-1393104-5	3	DPDT†	10A @ 240VAC	120VAC	2,250	17.5	27E122	27E891	12.49	11.35	10.41	10.05
499526	KUMP-7A58-24	9-1393116-7	4	DPST NO	15A @ 277VAC	24VAC	72	115	27E121	27E893	18.75	18.27	17.94	17.61
499817	KUP-11D15-36	4-1393117-6	4	DPDT	10A @ 28VDC or 240VAC	36VDC	1,800	26.7	27E121	27E893	18.42	17.97	16.04	13.86

\* For compatible sockets see page 162 † Silver-cadmium oxide, no lamp Blue Part No. = Limited Quantity Available

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.  
 Details on page 246.



## Beta Electric General Purpose Relays

### Pin Type Terminals

- DPDT • 8-pin octal style plug
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient operating temperature: -10°C to +50°C
- Size: 1.4"L x 1.4"W x 2.7"H

### BTA1 Series Relays

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139766	BTA1-2C-12VDC	R02-11D10-12	12VDC	\$11.55	\$11.34	\$8.54
139741	BTA1-2C-120VAC	R02-11A10-120	120VAC	11.95	10.55	9.59

### Socket for BTA1 Series (250 VAC, 20 Amps)

Part No.	Product No.	Pins	Dimensions	1	10	50
141145	PF-083A	8	2.0"L x 1.6"W x 0.8"H	\$4.39	\$4.08	\$3.31



## Dry Contact & Mechanical Relay Output Module

- Contact arrangement: SPST NO
- Max. current rating: 10W • 1500VAC optical isolation
- Min. drop-out voltage: 2.5VDC
- Max. off-state leakage current: 0.002mA
- UL, CSA certified
- Max. contact resistance: 250mΩ
- Nominal logic voltage: 5Vcc
- Max. rev. logic voltage: -5VDC
- Built-in status LED

Part No.	Product No.	Max. Logic Supply Current	Max. Line Voltage	Nom. Input Resistance	1	10	25
469458	70M-ODC5R	10mA	100VDC/120VAC	50Ω	\$20.05	\$19.02	\$18.07

## PB CDB Series CMOS IC Time Delay Relay

- Initial dielectric strength: between open contacts – 500V<sub>RMS</sub>, 60Hz; between other contacts – 500V<sub>RMS</sub>, 60Hz
- Timing ranges: 0.1 seconds to 180 seconds
- Timing adjustment: knob type • DPDT
- Release and recycle time: 45ms typical; 60ms max.
- Contact material: silver-cadmium oxide alloy
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 10,000 operations min. @ rated load

Power requirement: AC or DC – typically less than 3W

Part No.	Product No.	Voltage	Time (sec)	Pins	1	10	25
497299	CDB-38-70004	120VAC	0.6 – 60	8	\$246.09	\$234.39	\$223.23

## PB CNM5 Series Multi-Function Time Delay Relay

- For plug-in or panel mount • DPDT
- Digital adjustment via thumbwheel switches
- Timing ranges: 0.1 – 99.9/1 to 999 seconds; 0.1 – 99.9/1 to 999 minutes; 0.1 – 99.9/1 – 999/10 – 9,990 hours
- Reset time (power interruption): 45ms typical; 60ms max.
- Initial dielectric strength: between output poles – 1500V<sub>RMS</sub>, 60Hz; between input and output – 1500V<sub>RMS</sub>, 60Hz
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operation min. @ rated load
- Contact material: silver-cadmium oxide alloy • Transient protection: 13 joules MOV
- 1/16 black plastic case

Power requirement: 3W @ 120VAC

Part No.	Product No.	Voltage	Pins	1	10	25
497344	CNM5	120VAC	11	\$82.29	\$78.39	\$74.66

## PB CNS Series Multifunction Time Delay Relays

- DPDT
- Rating: 10A @ 30VDC or 277VAC
- Electrical life: 100,000 operations at rated load
- Dielectric strength: 1,000V<sub>RMS</sub>, 60Hz between open contacts; 1,500V<sub>RMS</sub>, 60Hz between all other conductors

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 25VAC/VDC

Part No.	Product No.	Voltage	Timing Functions	Pins	1	10	25
497352	CNS-35-72	120VAC	4	8	\$82.85	\$78.91	\$75.16
282212	CNS-35-92	24-240VAC/VDC	4	8	67.89	62.23	56.57
282221	CNS-35-96	24-240VAC/VDC	8	11	79.05	75.46	71.87

## JAMECO ValuePro

## General Purpose Relays

### LB2 Series

- Contact rating: 240VAC/30VDC @ 12A
- DPDT • 8-pin
- Mechanical life: 10,000,000 operations
- Electrical life: 100,000 operations min. at rated load

Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	50	100
172719	LB2-12DS	K10-11D15-12	12VDC	\$5.39	\$4.85	\$4.31	\$3.88
175565	LB2-24DS	K10-11D15-24	24VDC	6.49	5.93	5.32	4.85
175573	LB2-110AS	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39

### LB4H Series

- Insulation resistance: 1,500MΩ @ 500VDC
- Mechanical life: 10,000,000 operations • 4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	25	50
291507	LB4H-12DS	KHAU-17D12-12	12VDC	\$4.45	\$4.33	\$4.20	\$4.03
175602	LB4H-24DS	KHAU-17D12-24	24VDC	5.09	4.93	4.77	4.36
175610	LB4H-110AS	KHAU-17A12-120	110VAC	5.55	5.20	4.92	4.57

### Relay Sockets

- DIN rail snap socket for LB2 & LB4H relays

Part No.	Mfg. P/N	P & B Cross Ref.	Pins	1	10	50
175531	PTF-08A-A	27E895	8	\$6.65	\$5.98	\$5.38
175557	PYF-14A-A	27E894	14	4.74	4.02	3.02



## Relay Sockets



### Relay Socket for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282132	27E122	DPDT	8	Standard	\$4.15	\$3.82	\$3.69	\$3.57

### Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282183	27E894	4PDT	14	DIN rail	\$6.99	\$6.69	\$6.39	\$5.89

### Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282191	27E895	DPDT	8	DIN rail	\$4.75	\$4.55	\$4.35	\$4.19



## Circuit Breakers

- Quick connect style terminals
- Actuator: black plastic button • Mounting hole: 0.450"
- Included hardware: nut, knurled nut, ID plate

Part No.	Product No.	Current Rating	1	10	50	100
621368	35-2104	4A @ 125/250VAC	\$4.75	\$3.69	\$3.49	\$3.29
621376	35-2105	5A @ 125/250VAC	4.75	3.69	3.49	3.29
621384	35-2106	6A @ 125/250VAC	4.75	3.69	3.49	3.29
621392	35-2107	7A @ 125/250VAC	4.75	3.69	3.49	3.29
621405	35-2018	8A @ 125/250VAC	4.75	3.69	3.49	3.29
621413	35-2110	10A @ 125/250VAC	4.75	3.69	3.49	3.29
621421	35-2112	12A @ 125/250VAC	4.75	3.69	3.49	3.29
621430	35-2115	15A @ 125/250VAC	4.75	3.69	3.49	3.29
621448	35-2120	20A @ 125/250VAC	4.75	3.69	3.49	3.29
621464	35-2130	30A @ 125/250VAC	4.75	3.69	3.49	3.29



## Input/Output Module Relay

- Switch form: SPST-NO
- Isolation: 4,000V<sub>RMS</sub>, 60Hz
- Capacitance: 8pF typical (input to output)

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Color	Voltage	Resistance	1	10	25	50
551822	OACM-5H	Black	5VDC	220Ω	\$14.15	\$13.40	\$12.73	\$12.11





## CS Series Solid State Hybrid Voltage Sensors

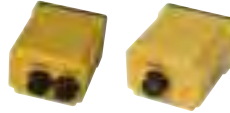
- Power requirements: typically less than 3W • Continuous duty cycle
- Internal relay contact rating: 10A @ 28VDC resistive; or 120VAC
- Internal contact arrangement: DPDT • Reverse polarity protection on DC types
- 8-pin octal style plug, plastic dust cover

### Fixed pick-up and adjustable drop-out

Part No.	Product No.	Pick-up Voltage	Drop-out Voltage	Max. Voltage	1	10	25
497491	CSJ-38-71010	105	90-103	140VAC	\$173.99	\$165.70	\$157.81

### Adjustable pick-up and adjustable drop-out

Part No.	Product No.	Pick-up Voltage	Drop-out Voltage	Max. Voltage	1	10	25
497504	CSL-38-30010	20-30	18-28	32VDC	\$189.09	\$179.65	\$170.67



## Inductive Proximity Switch Sensors

### Cylindrical and Square Styles

- Operating voltage range: 10-30VDC • Fast response
- Nominal operating voltage: 12VDC • 6' long cable
- Normally open output • Pre-tinned pigtail
- Switching frequency: 1.5kHz • Short circuit protected
- Current consumption: 10mA max. • LED status indicator
- Sensing target: inductive type – magnetic metal • Sensing distance:  $\pm 10\%$  (tin)

		Output	Effec. Dist.	Standard Target	Size	Mounting	Pricing		
Part No.	Product No.	Circuit	(Iron)	(Iron) (mm)	(L" x Dia.)	Hole (in.)	1	10	25
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	\$10.99	\$9.99	\$8.99
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	20.65	18.61	16.75
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	21.59	19.43	17.27
155571	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6" x 0.70"	0.70	29.94	25.46	19.10
421201	TS12-05N-1⊕	NPN	0-4.0mm	12 x 12 x 1	2.5" x 0.80"	0.66	23.59	20.05	15.04



## Magnetic Proximity Switch Sensors

- Contact rating: 3W max. @ 30VDC or 0.3A max. @ 30VAC
- Contact form: SPST NO • Contact resistance: 100m $\Omega$  max. initial
- Operating temp.: -40°C to 100°C • Dielectric strength: 200VDC min.
- Mechanical & electrical life: 10 million operations
- Housing/spacer/cover: ABS plastic (UL94V-0), white
- Reed switch: rhodium coated, hermetically sealed, nitrogen filled glass capsule
- Wire leads: UL1060 22AWG stranded wire, stripped, 12"L white • Potting: epoxy
- Adhesive mounting: (MPS45WGW only) – foam backed, pressure sensitive

Part No.	Product No.	Description	1	10	100
588131	MPS45WGW	Subminiature surface mount, side exit leads, 1" make gap	\$9.25	\$8.48	\$7.78
588123	MPS20WGW	Standard surface mount, screw terminals, 1 1/4" make gap	10.59	9.85	9.80
588182	MPS9WGW	3/8" diameter panel mount, recessed magnetic contact, 1 1/4" make gap (switch and magnet)	8.35	7.64	7.35



## Relay Socket with Coil Diode

### VF4 Type

- 7.5" wire
- 12 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire
- Contact voltage/current: 12V/20A
- Use with P/N 148583, pg 161
- Diode coil suppression



Part No.	Cross Ref. No.	1	10	50	100
170624	RSD03	\$2.35	\$2.15	\$1.89	\$1.55

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## Optical Sensors

Fully integrated modules for applications which require optical-reflective sensing. Packaged in a TO-5 metal sealed package.

- Resolution: 0.19mm
- Wavelength: 700nm

Part No.	Product No.	1	10	100
1548801	HBC-1100	\$36.29	\$33.86	\$31.75

The APDS-9002 is a low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It consists of a spectrally suited phototransistor, which peaks in human luminosity curve.

- Supply voltage: 2.4V to 5.5V • Fall time: 0.8 ms
- Oper. temp.: -40°C to 85°C • Rise time: 0.95 ms
- Dark current: 50mA • Light current ratio: 1.2

Part No.	Product No.	1	10	100
1548511	APDS-9002-021	\$0.79	\$0.73	\$0.69



## 24VDC Liquid Level Sensor

Combine the control box and sensor to activate a water valve. When sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

- Empty type
- Diameter: 1.0"
- Overall Length: 3.9"
- Travel Distance: 2.0"

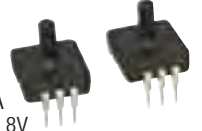


Part No.	Description	1	10	25
176250	Sensor empty type	\$7.39	\$6.28	\$5.29



## -1.1 to 2.5 PSI Pressure Sensor

- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice rated pressure
- Operating volt.: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure • Volt-level output
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H



Part No.	Product No.	1	10	100
196103	XFPN-025-KPGRNW1	\$24.95	\$22.45	\$20.21



## 0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P<sub>max</sub>): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls • 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)



Part No.	Product No.	1	10	100
218827	MPX10GS	\$8.99	\$7.64	\$5.74

## Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz  $\pm 1.0$ kHz
- Aluminum case

### 136654: Transmit/Receive Set

- Capacitance: 2000pF  $\pm 30\%$
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40 $\pm 1.0$ kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40 $\pm 1.0$ kHz (R=3.9k $\Omega$ )
- Case size: 0.47"H x 0.62" Dia.



### 139492: Transmit/Receive Set

- Capacitance: 2000pF  $\pm 20\%$
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40  $\pm 1.0$ kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40  $\pm 1.0$ kHz (R=3.9k $\Omega$ )
- Case size: 0.30"H x 0.43" Dia.



Part No.	Cross Ref.	1	10	50
136654	40TR16F	\$7.95	\$6.29	\$5.65
139492	40TR12B	7.69	6.96	6.26



## Hall-Effect Magnetic Proximity Sensor w/ Snap-Fit Mount

- Solid state reliability
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Operating voltage range: 4.75-24VDC
- Output saturation voltage max.: 400mV
- Immune to dust, dirt & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Output: 3-wire sink
- Reverse polarity protection to -24V



Lower \$\$\$

Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	10	25
513244	MP101301	4	25	300	60	24AWG x 1m	\$4.55	\$4.05	\$3.85



## Industrial & Commercial Magnetic Proximity Sensors

### Solid State, Adjustable Threaded Housing

- High speed capability
- South pole sensitive
- Cable/wire insulation: polyolefin
- Output: 3-wire sink
- Source or open collector output
- M12 integral connector meets IEC 60947-5-2
- Operating temp. range: -40°C to 125°C
- Output saturation voltage max.: 700mV



Lower \$\$\$

**Industrial Grade** • Immune to hostile environments • Reverse battery protection to -24VDC • SST housing

Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Cable/Connector	Pricing		
							1	10	25
513228	MP100502	10	24	25	1	12mm circular conn.	\$23.95	\$21.29	\$16.83

**Commercial Grade** • Anodized aluminum housing (black) • Operating voltage range: 4.75-24VDC

513236	MP100701	12	25	300	60	20AWG x 1m	\$24.25	\$21.81	\$19.63
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## Magnetic Proximity Sensors

- Omnipolar, magnetically activated switch
- Can be approached by any magnet from any angle with either pole
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C



### Aluminum Threaded Housing

- Immune to hostile environments
- Suitable for AC/DC circuits

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	25
513279	MP200701	SPST NO	10	175	0.5	0.6	\$7.15	\$6.80	\$6.46

**Cylindrical Plastic Housing** • Resistant to dirt and moisture

482396	AS201701	SPST NO	10	175	0.5	0.5	\$2.59	\$2.45	\$2.25
513308	MP201701	SPST NO	10	175	0.5	0.5	3.05	2.67	2.23
513324	MP201703	SPDT CO	3	100	0.2	1.0	5.55	4.98	4.49



## Reed-Based Magnetic Proximity Sensors

### Plastic Flange Mount

- Hermetically sealed contacts
- Contact resistance: 0.2Ω max.
- Zero power consumption
- Op. temp. range: -40°C to 105°C



**AS2018/MP2018 Series** • Moisture and dirt resistant

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	25
482409	AS201801	SPST NO	10	175	0.5	0.6	\$2.25	\$2.15	\$2.05
513332	MP201801	SPST NO	10	175	0.5	0.6	3.29	2.92	2.44

**AS2019/MP2019 Series** • Suitable for AC/DC circuits • Breakdown volt.: 200VDC min.

482417	AS201901	SPST NO	10	175	0.5	0.6	\$3.25	\$2.85	\$2.38
513359	MP201901	SPST NO	10	175	0.5	0.6	2.85	2.66	2.53
513367	MP201902	SPST NC	3	100	0.2	1.0	4.55	4.28	4.07



## Digital Vane Speed & Proximity Sensors

- Reverse battery protection to -24VDC
- Open collector output compatible w/ all logic families
- Sensor body material: glass filled polyester
- Operating voltage range: 4.5-24VDC
- Output saturation voltage: 400mV max.
- Operating temp. range: -40°C to 85°C



577580

Part No.	Product No.	Output	Termination Pins	Output Current	Supply Current	Pricing		
						1	10	25
577580	VN101501	3-pin sink	Pins	25mA max.	6mA max.	\$6.09	\$5.49	\$4.89
577598	VN101503	3 wire sink	24AWG x 150mm	25mA max.	6mA max.	5.75	5.39	5.13

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Products Are In Stock

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## Digital Hall-Effect Magnetic Proximity Sensor

### Low-Profile Flange Mount

- Reverse battery protection to -24VDC
- Output wire: 3-wire sink
- Output saturation voltage max.: 400mV
- Operating voltage range: 4.5-24VDC
- Applications: door position sensing, flow sensing, pedal switch
- Supply current: 5.2mA max.
- Output current: 20mA max.
- Operating point gauss: 185 max.
- Release point gauss: 60 min.
- South pole magnet
- Function: unipolar switch



Part No.	Product No.	1	10	25
513252	MP101401	\$4.65	\$4.36	\$4.14



## Industrial Grade Gear Tooth Speed Sensor

### Hall-Effect with Adjustable Steel Housing

- Reverse battery protection to -24VDC
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output saturation voltage: 700mV max.
- Output current: 25mA max.
- Output: sink
- Barrel length: 65mm
- Operating temp. range: -40°C to 105°C
- M18-1 thread
- 12mm circular connector



Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	100
512381	GS100201	\$49.99	\$44.22	\$42.01



## Commercial Grade Gear Tooth Speed Sensor

### Hall-Effect w/ Adjustable Aluminum Housing

- Reverse battery protection from 24VDC
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output voltage: 400mV max.
- Output current: 25mA max.
- Output: sink
- Wire: 20AWG x 1m
- Operating temp. range: -40°C to 125°C
- Thread: 15/32" - 32
- Barrel length: 1.0"



Lower \$\$\$

Part No.	Product No.	1	10	25
512401	GS100701	\$21.39	\$20.31	\$19.29



## Gear Tooth Speed and Direction Sensor

- 10-bit dynamic threshold
- Capable of 800Hz target speed
- Operating voltage range: 4.75-24VDC
- Reverse battery protected to -30VDC
- Supply current: 20mA max.
- Output saturation voltage: 1000mV max.
- Output current: 20mA max.
- Output: sink
- Operating temp. range: -40°C to 125°C



Part No.	Product No.	1	10	100
577336	SD101201	\$26.05	\$25.27	\$24.52



## Actuator Magnet Speed and Proximity Sensors

- Aluminum housing
- Adjustable thread mounting stud
- Operating temp. range: -40°C to 150°C



Part No.	Product No.	Description	1	10	25
482370	AS101001	South pole facing	\$4.89	\$4.34	\$3.61
482388	AS101002	North pole facing	3.65	3.45	3.38



135394 - Electrolytic



18294 - Toy Motors



149649 - Fans



135271 - LEDs



169578 - Photocells



55968 - Spacers



319600 - Cabinet

\* "LB" grab bag quantities and weights are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced towards the bottom of the page.

## Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 asst. ceramic disc capacitors	0.2 .....	\$5.94	\$5.39
135335	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps	1.0 .....	15.54	13.79
135458	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0 .....	14.95	13.49
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5 .....	5.94	5.39
135394	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps radial, axial, snap (photo above)	1.5 .....	13.85	12.29
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1 .....	10.45	9.40

## Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961	GB107	200 assorted diodes (zener, switching, silicon)	0.1 .....	\$6.85	\$6.15	\$5.51
18171	GB127	100 assorted transistors (NPN, PNP, power)	0.1 .....	6.85	6.15	5.51

## Resistors, Trimmers and Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104	GB116	200 asst. 1/4W resistors (5&10%)	0.1 .....	\$5.49	\$4.95
135351	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0 .....	14.95	13.49
18139	GB117	200 asst. 1/2W resistors (5&10%)	0.2 .....	6.85	6.15
18075	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1 .....	6.19	4.99
18278	GB174	100 assorted 1/4W & 1/2W single-turn pots (100Ω to 5MΩ assorted values)	0.2 .....	8.34	7.50

## Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4 .....	\$8.75	\$7.69
135378	GB165LB*	1 lb. (135 pcs) asst. #18235 switches	1.0 .....	18.95	16.95
18294	GB182	5 asst. toy DC motors (1.5-24V)	1.1 .....	7.95	7.49
149649	GB193	5 asst. AC&DC fans (photo above)	4.5 .....	8.75	7.69

## Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2 .....	\$8.74	\$8.29
135280	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0 .....	19.05	18.90
145242	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0 .....	22.86	21.75
105620	GB120	100 asst. sockets (DIP IC, PGA)	0.3 .....	6.55	5.95
135386	GB120LB*	1 lb. (260 pcs) assorted sockets (DIP, PGA, SIMM, SIP, DIN)	1.0 .....	15.54	13.79


## LEDs, Displays and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 assorted sizes & colored LEDs (T1 & T1¾ round and rectangular)	0.1 ...	\$7.29	\$6.61	\$5.93
18323	GB186	500 asst. sizes #18041 LEDs	0.3 ...	19.95	17.95	15.95
135271	GB110LB*	1 lb. (1900 pcs) asst. #18041 LEDs	1.0 ...	45.85	41.77	39.73
18201	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5 ...	11.94	8.94	8.03
169578	GB125	100 asst. values photocells	0.2 ...	19.95	18.49	16.95

## Spacers and Standoffs Assortments

		• Round • Hex • Aluminum • Brass • Steel • Plastic • Nylon				
Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
55968	GB140	100 asst. 4-40, 6-32, 8-32 round/hex, alum/brass/nylon spacers	0.3	\$21.54	\$19.79	\$17.94
135423	GB140LB*	1 lb. (310 pcs) same as P/N 55968	1.0 ...	34.95	31.95	28.00

## Hardware Assortments

• 2-56	• 4-40	• 6-32	• 8-32			
• Screws	• Plastic	• Nuts	• Washers			
• Steel	• Brass	• Lock Washers	• Aluminum			
Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0 .....	\$7.15	\$6.42	\$5.75
171635	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571 (above)	3.0 .....	15.55	13.79	11.94

## Schwab's School Selection

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

**Includes:** Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	3.3 .....	\$48.75	\$42.64
319600	GB197	20 drawer component cabinet	4.7 .....	15.95	13.95

**\$76.99 Value**








What's your suggestion?




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For more Sensors & Component Grab Bags visit our website today.

**JAMECO ValuePro**
**Sonic Transducers and Buzzers**
**Quantity SAVE**
**Magnetic Transducers** • Applied voltage: 1/2 duty, square wave

Part No.	Cross Ref. No.	Fig.	Operating Volt. (Vp-p/mA)	Volt. Range (Vp-p)	Freq. (Hz)	Sound (dB)	Dimensions	Pricing			
								1	10	100	1000
207917	DB105GFPN 	1	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	\$1.55	\$1.40	\$1.12	<b>\$.84</b>
138722	DB111A-PN 	2	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	1.55	1.38	1.18	.88
138740	DBX05-PN 	2	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.35	1.19	.99
106500	SBT-1205 	2	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.35	1.25	1.09
207951	UDX05CPN 	3	5/100	4 – 8	3100	85	.22"H x .35"Dia.	1.35	.99	.92	.83
<b>Other Manufacturers — Great Deals</b>											
673918	SEP-1162	4	20/7	—	4000	80	.28"H x .55"Dia.	\$1.95	\$1.79	\$1.55	\$1.09
673926	SEP2202A	5	3-20/11	3 – 20	3000	85	.64"H x .96"Dia.	1.95	1.79	1.55	1.09
673871	PRT-1205	2	5/40	3 – 8	2400	90	.35"H x .46"Dia.	1.25	1.15	.99	.75
1537408	OMB-01	7	1.5/15	—	2048	80	.53"H x .63"Dia.	1.29	1.19	1.05	.75

**Magnetic Buzzers**



207985	TDB01 	6	1.5/30	1.25-2	2300	75	.47"H x .38"Dia.	\$2.49	\$2.29	\$1.99	\$1.79
76065	TDB05-PN 	6	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.79	2.69	2.59
207976	TDB12 	6	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.15	1.98	1.68	1.59
<b>Other Manufacturers — Great Deals</b>											
673774	SBT-1612	7	12/40	6-18	2048	85	.53"H x .62"Dia.	\$2.09	\$1.89	\$1.65	\$1.39

**Piezo Buzzers**



336276	PT-1250W 	8	3/1.5	2 – 5	1250	85	13mm H x 30mm Dia.	\$1.59	\$1.27	\$1.20	\$1.08
123537	11D3240 	10*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.65	3.49
32601	11S3240 	10	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia	3.25	3.00	2.64	2.38
336989	SC616N 	9 <sup>C</sup>	6-16/6-22	6 – 16	2900	95	1.28"H x 1.69"Dia	<b>13.65</b>	<b>12.29</b>	<b>9.83</b>	<b>7.37</b>
335556	MSR320 	11	3-20/3-16	3 – 20	3400	80	.39"H x .91"Dia	2.95	2.69	2.32	2.09
76021	7S3240-LA 	12	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia	6.49	6.10	5.84	5.58
335695	PF-20A35EW 	12 <sup>F</sup>	12/10	3 – 28	3500	95	25mm H x 28mm Dia	4.29	3.66	3.36	3.09
207993	SL15R3120LA 	13	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	6.95	6.29	5.99	5.75
336314	PT-2038FW 	5	12/8	3 – 28	3800	85	4.5mm H x 24mm Dia.	1.38	1.31	1.26	1.14
335564	MSR516N 	3	5-16/3-14	5 – 16	3850	86	.39"H x .91"Dia.	<b>3.65</b>	<b>3.29</b>	<b>2.63</b>	<b>1.95</b>
138712	32S4120-PN	6	12/7	3 – 16	4000	80	.30"H x .54"Dia.	3.45	2.95	2.70	2.50
196357	AI-175	6	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	2.99	2.69	2.35	2.06
335855	PK-12N40P 	3	12/10	3 – 15	4100	83	8mm H x 14mm Dia.	3.95	3.16	2.69	2.42
<b>Other Manufacturers — Great Deals</b>											
454521	MSR3205	11	20/16	3 – 20	3400	80	.39"H x .91"Dia.	\$6.99	\$6.29	\$5.69	\$5.09
673900	SEP-1172	14	3-28/7	3 – 28	3300	81	.62"H x 1.27"Dia.	1.95	1.75	1.29	.99

\* Dual tone    C = Continuous tone    F = Fast pulse

**Mechanical/Electromechanical Buzzers**

24872	63S109LA 	15	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	\$2.49	\$2.19	\$1.99	\$1.79
140695	63S1120-LA 	15	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.69	1.54	1.39	1.11

**Piezo Sirens**
**Lower \$\$\$**

336188	PS-520 	13	12/200	5 – 15	3000	105	40mm W x 57.5mm D x 44.5mm H	\$9.25	\$8.33	\$6.66	\$5.96
207889	18R3120 	16	12/120	9 – 15	1500-3100	105	3.4"L x 2.2"W x 1.3"H	8.49	8.21	7.78	7.50
336225	PS-562	17	12/40	5 – 15	2500/3500	100	16mm H x 42mm Dia	5.05	4.92	4.53	4.13

**Listen In: Getting Attention**

Audio alerts are a very important component in many embedded systems designs. Operators are often expected to perform duties beyond monitoring your console, and so you need to do more than simply get their attention via a visual indicator.

When contemplating audio alerts, you should also know a bit about the user and their environment. For instance, a loud manufacturing department will never hear one of the low-power sonic transducers above, especially if ear protection is worn. There just isn't enough sound energy. Similarly, many middle-aged people have premature hearing loss. The loss is usually in the higher end of the audio spectrum. Using high-pitched devices with

these people will serve little value, even in relatively quiet environments.

You'll also want to consider what type of alert is appropriate. Does your user simply need to know that there is an emergency? If so, perhaps a siren will do. Other situations might benefit from spoken status updates. Then you need a broad spectrum device; perhaps a speaker.

When designing your projects, always make sure you know who the user is. Your efforts will make sure your product is as effective as it can possibly be!


**Practical Practices**  
 Money Saving Tips for the Engineer

## Round Ferrite Speakers

- 320135: with 2" lead wires • Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces
- Braided copper voice coil leads • Paper diaphragm

**Lower \$\$\$**

For speaker wire, see page 103

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
320362	TRF-050F	2.0 x 0.7	0.25	0.5	8	86	320 – 4000	1.3 x 0.4	\$2.09	\$1.64	\$1.24
135589	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.59	1.33	1.09
10840	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.43	1.07



135589 Side



135589 Back

## Square Ferrite Speakers

- Pre-tinned speaker lugs • Large magnet • Anodized metal surfaces • Braided copper voice coil leads • Paper diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
135693	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	\$1.65	\$1.48	\$1.32
31959	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.69	2.39	2.15
99996	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.55	2.28	2.02



99996 Side



99996 Back

## Flat Element, Square Piezoelectric Speakers

- Excellent for alarms or other voice uses • Stainless steel diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34025	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	\$2.03	\$1.83	\$1.62
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49
673766	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 – 6000	1.9 x 0.1	2.49	2.25	1.95



34025 Side



34025 Back

## Alnico Speakers

- For computer case use • Paper diaphragm • Wide frequency response • Pre-tinned solder lugs • Large magnet • Impedance: 8Ω

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
88411	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	\$1.79	\$1.55	\$1.25
684730	A0202C	1	2.6 x 0.9	0.5	1.0	88	350 – 5000	0.9 x 0.5	1.89	1.69	1.49
135765	RA2425	1	2.2 x 0.8	0.25	0.5	87	400 – 4000	0.5 x 0.4	1.89	1.69	1.52
111588	BO102	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.79	2.26	1.86
135812	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	3.65	3.09	2.79



Fig. 1



Fig. 2



Fig. 3

## Micro Speakers

**Quantity SAVE**

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)				1	10	100
355514	GC0201M	1.70 x 0.38	0.1	0.2	78	500 – 20000	0.26 x 0.06	\$1.39	\$1.12	\$0.84



Front



Back

## Omni-directional Electret Condenser Microphone Cartridges

### Applications:

- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing			
												1	10	100	1000
160979	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	\$ .72	\$ .65	\$ .52	\$ .35
136574	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.59	.54	.49	.44
320179	EM-99	-64 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.27" x .39"	1.49	1.25	.99	.81



160979



136574 & 320179



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For additional Buzzers, Speakers and Microphones, visit our website today!

## 1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Ideal for PC board mounting
- Mylar diaphragm
- Impedance: 8Ω
- Output SPL: 82 dB
- Pin spacing: 15mm
- Dimensions: 1.2"Dia. x 0.5"D
- Frequency range: 700 – 5000Hz
- Nominal input: 0.15W; max. input: 0.2W

**Quantity SAVE**

Part No.	Cross Ref. No.	Description	1	10	100
135722	PCM415	Solder leads	\$2.15	\$1.79	\$1.34





## Color Instrumentation Knobs (1/4" Shaft Diameters)

- JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw
- CR-MS series for knurled shaft
- All photos on [www.Jameco.com](http://www.Jameco.com)










Fig. 1  
265077



Fig. 2  
265018



Fig. 3  
265228

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	Fig.	1	10	100
265051	JK-905A 	Black/red	White	.58 x .57	1 ...	\$.99	\$.89	\$.79
265077	JK-905C 	Black/blue	White	.58 x .57	1 .....	.92	.73	.66
265018	JK-904A 	Black/red	White	.47 x .78	2 .....	.99	.93	.88
265261	CR-MS-5C5-T18 	Grey	Grey	.68 x .51	3 .....	.69	.60	.56
265252	CR-MS-4C5-T18 	Grey	Green	.68 x .51	3 .....	.78	.67	.61
265244	CR-MS-3C5-T18 	Grey	Blue	.68 x .51	3 .....	.79	.67	.61
265228	CR-MS-1C5-T18 	Grey	Red	.68 x .51	3 .....	.74	.66	.495

\* For use with 1/4" knurled shaft



## Aluminum Instrumentation Knobs (1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment

290125:  
Coarse surface for sensitive control; 1/8" shaft dia.



Fig. 1









Fig. 2



Fig. 3



Fig. 4

Part No.	Cross Ref. No.	Fig.	Shaft Size	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
290125	42008-1 	1	1/8"	Silver	Silver	.500 x .625 ....	\$1.99	\$1.79	\$1.61
162481	K5-1/4S 	2	1/4"	Chrome	Silver	.500 x .560 ....	1.19	1.09	.96
162499	K5-1/4B 	3	1/4"	Black	White	.500 x .560 ....	1.85	1.59	1.19
138482	KN031 	4	1/4"	Alum.	Black	.610 x .650 ....	1.79	1.62	1.43
138502	KN032 	4	1/4"	Alum.	Black	.870 x .750 ....	2.35	2.05	1.85
138511	KN033 	4	1/4"	Alum.	Black	1.18 x .870 ....	2.49	2.24	1.95



## Black Instrumentation Knobs (1/4" Shaft Diameters)

- Set screw for secure attachment
- RN-112A/113A/114A: numeric dial type



264998



265009



264920



264955



264990



264883



264892



102788



104176



202287



136241



138393

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia. ")	1	10	100
264998	JK-902A	Black	White	.69 x 1.31	\$.89	\$.67	\$.62
265009	JK-902B	Black	White	.60 x .95	.59	.55	.51
264920	JK-901A	Black/alum	White	.79 x 1.77	1.21	1.06	.98
264955	JK-901C	Black/alum	White	.61 x 1.06	.75	.59	.54
264990	JK-901D	Black/alum	White	.47 x .78	.75	.59	.55
264883	RN-112A	Black/alum	Numeric	.90 x 1.46	.99	.93	.88
264892	RN-113A	Black/alum	Numeric	.70 x 1.15	.99	.93	.88
102788	JK-903C	Black	White	.54 x 1.25	.66	.45	.41
104176	JK-902C	Black	White	.49 x .75	1.04	1.01	1.00
202287	CP-Z1-M-S	Black/alum	White	.60 x .80	.79	.69	.64
136241	GKB-214	Black/alum	White	.52 x .54	.78	.66	.59
138393	41108-1	Black/alum	White	.56 x .85	.99	.75	.69

## Alcoswitch

## Knobs



550580



550678



550740



550432

**Straight Knurl w/ Spinner, No Indicator** Blue Part No. = Limited Quantity Available

Part No.	Product No.	Color	Shaft Size	H" x Dia."	1	10	100
550580	KN1751AS1/4	Natural	1/4"	1.65 x 1.75 .....	\$23.75	\$21.70	\$21.02
550598	KN1751BS1/4	Black	1/4"	1.65 x 1.75 .....	24.25	22.04	21.02

**Straight Knurl w/ Indicator Line**

550678	KN900A1/4	Natural	1/4"	.625 x .949	...	\$9.95	\$9.43	\$8.96
550686	KN900B1/4	Black	1/4"	.625 x .949	...	9.65	9.31	8.96

**Straight Knurl w/ Pointer and Indicator Line**

550740	KPN500B1/8	Black	1/8"	.625 x .500	...	\$13.75	\$13.11	\$12.45
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**Diamond Knurl w/ Indicator Line**

550432	KD500B1/4	Black	1/4"	.630 x .500	...	\$7.19	\$6.83	\$6.49
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## 3M

## Adhesive Rubber Feet

These durable, pressure sensitive, adhesive-backed urethane bumpers provide many high performance advantages: adhere quickly and stay in place on a variety of surfaces, resist marring and staining on surfaces, and give excellent skid and abrasion resistance.



Fig. 1



Fig. 2



Fig. 3



Fig. 4

## Bumpon™ Protective Products

Part No.	Product No.	Type	Fig.	Pack	W" x H"	1	10	50
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	\$6.99	\$5.99	\$5.49
142771	SJ5008BLKC	Black square	2	100	.50 x .12	7.99	5.99	4.99
142682	SJ5018BLKC	Black square	3	100	.50 x .23	10.49	8.99	7.99
126981	SJ5023BLK4	Black square	4	4	.81 x .30	1.95	1.75	1.59
142666	SJ5023BLKC	Black square	4	100	.81 x .30	14.99	12.99	10.99

[www.Jameco.com](http://www.Jameco.com)

For additional Knobs and Adhesive Rubber Feet,  
visit our website today.

**KEYSTONE**

**4-40 Mounting Bracket**

- Material: zinc plated
- Size: .343"H x .375"L x .250"W
- Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1581530	621R	L-type, steel	\$ .219	\$ .197

**Rubber Grommet**

- .062" panel thickness
- .437" ID x .812" mounting hole

Part No.	Product No.	1	5	50
1581556	747R	\$ .57	\$ .51	\$ .44

**Nylon Shoulder Washers/Bushing**

- Nylon 6/6 • Diameter: .218"
- Minimum order 5 pieces

Part No.	Product No.	Screw Size	5	50
1581804	3049R	4	\$ .049	\$ .044

**4-40 Force-Fit Threaded**

- Stainless steel • .219" diameter
- .166" mounting hole

Part No.	Product No.	Description	1	5	50
1581898	4861R	Round, .065"L ...	\$ .54	\$ .481	\$ .433
1581901	4863R	Round, .250"L ....	.70	.65	.61

**Hardware**

**.250" Swage Threaded 4-40**

- Brass nickel plated • .187" shank dia.
- Minimum order 5 pieces

Part No.	Product No.	Description	5	100
1582428	1560AR	Round .125"H	\$ .323	\$ .176

**Spacer**

- Nylon 6/6, UL94V-0
- Slimline lock-in, ins. • .275" diameter
- .156"/.187" mntng hole • Minimum order 10 pieces

Part No.	Product No.	Description	10	100
1582452	1930BR	.625"L	\$ .11	\$ .099

**#8 aluminum screw**

- .176" ID x .232" OD • Clear hole
- Minimum order 5 pieces

Part No.	Product No.	Description	5	50
1581492	415R	.437"L	\$ .174	\$ .157

**KEYSTONE Instrumentation Handle**

- 8-32 internal thread
- Diameter: .250"
- Size: 4.0"L x 1.5"H x .375"T
- Material: aluminum, black anodized • Fully Insulated

Part No.	Product No.	Description	1	5	50
1582196	7174R	Round	\$2.89	\$2.74	\$2.59

**PCB Standoff Mounting Hardware**

- Snap "on"
- Nylon
- 291987: with thread
- Minimum order 10 pieces

Part No.	Cross Ref. No.	Dimensions	Holes	10	100	1000
28337	PCST	1.2"L x 0.6"W	0.2"	\$ .084	\$ .075	\$ .048
129252	PCST2	0.9"L x 0.4"Dia.	0.2"/0.3"	.184	.112	.077
148056	PCST3	0.8"L x 0.5"W	0.1"/0.2"	.09	.077	.058
156831	KCS10	0.68"L x 0.32"Dia.	0.14"	.111	.088	.095

**RAF**

**Male-Female Hex Aluminum Standoffs**

- Iridite clear finish
- 3/16" Hex, 4-40 Thread
- Thread length : 1/4"
- 5 piece multiple

Part No.	Product No.	Length	1	5	100	1000
393458	4501-440-A-7R	1/4"	\$ .298	\$ .283	\$ .269	

**3/16" Hex, 6-32 Thread • Thread length : 3/8"**

Part No.	Product No.	Length	1	5	100	1000
393554	4505-632-A-7R	1/2"	\$ .298	\$ .283	\$ .269	
393588	4513-632-A-7R	1"	.34	.309	.294	

**Male-Female Hex Brass Standoffs**

- Zinc clear chromate finish
- 1/4" Hex, 4-40 Thread • Thread length : 3/16"

Part No.	Product No.	Length	1	10	100	1000
393837	4530-440-B-12R	1/4"	\$ .73	\$ .61	\$ .58	\$ .55
393845	4532-440-B-12R	3/8"	.75	.63	.60	.57

**Female-Female Hex Brass Standoffs**

- Zinc clear chromate finish
- 1/4" Hex, 4-40 Thread
- 5 piece multiple

Part No.	Product No.	Length	1	5	100	1000
393693	2102-440-B-12R	3/8"	\$ .292	\$ .292	\$ .277	
393714	2104-440-B-12R	1/2"	.372	.353	.336	
393749	2112-440-B-12R	1"	.69	.65	.62	

**1/4" Hex, 6-32 Thread**

Part No.	Product No.	Length	1	10	100	1000
393772	2104-632-B-12R	1/2"	\$ .45	\$ .39	\$ .35	\$ .32
393811	2120-632-B-12R	1-1/2"	.77	.65	.62	.59

**KEYSTONE**

**Standoffs**

**.250" Hex Female**

- 6-32 thread
- Brass, zinc plated
- 1582399
- Minimum order 5 pieces

Part No.	Product No.	Hex Length	5	100	1000
1582399	1451AR	.250"	\$ .323	\$ .137	\$ .112
1582401	1451BR	.375"	.372	.158	.152

**.250" Hex Male/Female**

- 4-40 threaded
- 1582305: Aluminum, Iridite (clear)
- 1582330: Brass, zinc plated

Part No.	Product No.	Hex Length	5	100	1000
1582305	8403R	.750"	\$ .48	\$ .323	\$ .265
1582330	8713R	.250"	.40	.225	.176

**.250" Hex Male/Female**

- 6-32 threaded
- Aluminum, Iridite (clear)

Part No.	Product No.	Hex Length	5	100	1000
1582321	8413R	.375"	\$ .271	\$ .244	\$ .155

More Keystone Hardware available at [www.Jameco.com](http://www.Jameco.com)

**RAF**

**Instrumentation Handles**

- 32 threads
- Material: brass, nickel plate
- Oval diameter: 5/8"

Part No.	Size (L" x H" x T")	1	10	100
216821	3.0 x 1.3 x 0.3	\$2.49	\$2.12	\$1.59

**RAF**

**Spacers**

**Aluminum Round Spacers**

- Iridite clear finish
- 1/4" OD, #4 ID (0.115")
- 10 piece multiple

Part No.	Product No.	Length	10	100	1000
393095	1126-4-A-7R	3/8"	\$ .242	\$ .23	.218

**1/4" OD, #6 ID (0.140")**

Part No.	Product No.	Length	10	100	1000
393272	1124-6-A-7R	1/4"	\$ .205	\$ .194	\$ .185
393319	1128-6-A-7R	1/2"	.242	.23	.218
393335	1134-6-A-7R	7/8"	.326	.309	.294

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**RAF**

**Washer-Face Aluminum**

Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
393976	7100-A	4-40	5/16"	5/8"	\$1.55	\$1.47	\$1.40	\$1.33
394004	7106-A	8-32	3/8"	11/16"	1.69	1.61	1.53	1.45

**Thumbscrews**

**Plain Aluminum**

Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
394063	7125-A	6-32	3/8"	9/16"	\$1.49	\$1.42	\$1.35	\$1.28

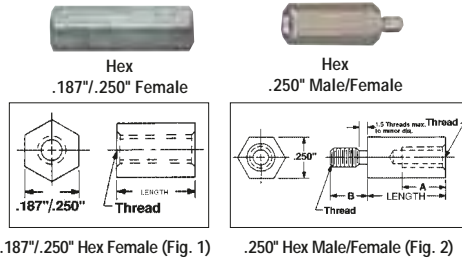
## Aluminum &amp; Brass Threaded Standoffs

† Finish: Iridite (clear)<sup>1</sup> per MIL-C-5541-D; bright tin plate<sup>2</sup>; stainless steel<sup>3</sup>

Lower \$\$\$

.187" Hex Female  
4-40 Thread (Fig. 1) .187" Hex

\* 5 piece multiple



Part Number	Metal†	Hex Length	Pricing		
			5	100	1000
175636	Brass ②	.187"	\$.21	\$.15	\$.10
102795	Brass ②	.240"	.263	.188	.125
133613	Alum ①	.250"	.213	.128	.096
133640	Alum ①	.500"	.224	.211	.115
133656	Alum ①	.750"	.452	.411	.242
139185	Alum ①	1.000"	.44	.39	.34

## .250" Hex Male/Female

4-40 Thread (Fig. 2) (Thread A: .250"; B: .187")

\* 5 piece multiple

Part Number	Metal†	Hex Length	Pricing			
			1	5	100	1000
139193	Alum ①	.250"	\$.18	\$.14	\$.095	
77501	Alum ①	.375"	.21	.16	.093	
134763	Alum ①	.437"	.21	.18	.15	
108371	Alum ①	.500"	.255	.173	.102	
77519	Alum ①	.625"	.37	.20	.15	
133605	Alum ①	.750"	.354	.192	.142	
139206	Alum ①	1.000"	.55	.368	.263	.158

## .250" Hex Female

6-32 Thread (Fig. 1) .250" Hex

\* 5 piece multiple

Part Number	Metal†	Hex Length	Pricing			
			1	5	100	1000
77535	Alum ①	.250"	\$.25	\$.16	\$.092	
133592	Alum ①	.375"	.303	.136	.094	
77543	Alum ①	.500"	.22	.17	.10	
77552	Alum ①	.625"	.26	.19	.14	
77570	Alum ①	.750"	.309	.232	.144	
77578	Alum ①	1.000"	.71	.42	.36	.192
143408	Alum ①	1.500"	.75	.65	.55	.45
143441	Alum ①	1.750"	.85	.65	.55	.49

Part Number	Metal†	Hex Length	Pricing			
			1	5	100	1000
77586	Alum ①	.250"	\$.34	\$.246	\$.19	
77593	Alum ①	.375"	.405	.235	.212	
111756	Alum ①	.500"	.65	.47	.29	.22
139214	Alum ①	.625"	.408	.366	.324	
139222	Alum ①	.75"	.41	.368	.321	
139231	Alum ①	1.00"	.55	.49	.39	.34
128566	Alum ①	1.25"	.65	.56	.463	.40
166545 ②	Alum ①	1.50"	.86	.75	.68	.56

② Blue Part No. = Limited Quantity Available

## .250" Hex Male/Female

6-32 Thread (Fig. 2) (Thread A: .375"; B: .250")

\* 5 piece multiple

Part Number	Metal†	Hex Length	Pricing		
			5	100	1000
133542	Alum ①	.250"	\$.39	\$.35	\$.21
133568	Alum ①	.375"	.41	.37	.23
77607	Alum ①	.500"	.34	.31	.25
77623	Alum ①	.750"	.417	.374	.30
77650	Alum ①	1.000"	.48	.436	.349
206623	Steel <sup>3</sup>	1.250"	1.67	1.50	1.31

## SAE Hardware

• Zinc-plated steel

Quantity SAVE



## Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece multiple	
				100	1000
40952	4-40	Std	.250	\$.021	\$.013
40970	4-40	Std	.375	.018	.015
106810	4-40	Std	.500	.043	.031
106543	6-32	Std	.250	.018	.013
42446	6-32	Std	.375	.019	.014

## Hex Nuts

Part Number	Screw Size	Thread	Length (inches)	100 piece multiple	1000
38165	2-56	Std	.183	\$.024	\$.016
40943	4-40	Std	.243	.027	.014
42420	6-32	Std	.306	.021	.017

## Flat Washers

Part Number	Screw Size	Dia. (inches)	100 piece multiple	
			100	1000
211131	4	.237	\$.019	\$.014
106826	4	.281	.034	.023
106833	6	.373	.025	.023
106842	8	.377	.163	.102

## Internal Tooth Lock Washers

Part Number	Screw Size	Length (inches)	100 piece multiple	1000
106850	4	.258	\$.007	\$.006
106868	6	.277	.018	.015
106877	8	.323	.035	.032

## Split Lock Washers

Part Number	Screw Size	Length (inches)	100 piece multiple	
			100	1000
106788	2	.161	\$.024	\$.016
211140	4	.201	.02	.015
40977	4	.242	.02	.015
42463	6	.240	.018	.016

## DC Brushless Fans

Call for additional OEM PRICING – we carry major manufacturers.

## DC Brushless Fans

NEW



Quantity SAVE



206157



695050



1581249



355493

Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
131247	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	\$10.79	\$10.25	\$9.74	\$9.24
206157	Sunon	GM0502PFV3-8.GN	5	1.00 x 1.00 x 0.40	1.8	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.76	8.60	6.45
695050	Sunon	GM0502PFV2-8	5	1.00 x 1.00 x 0.40	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	11.29	9.25	8.31	7.72
1585397	Sunon	GM0502PFB1-8	5	1.00 x 1.00 x 0.40	3.5	Ball	130	0.7	UL/CUL	25	6"	9.95	8.95	7.85	6.75
1708481	Sunon	KDE0502PHB3-8 (MS)	5	1.00 x 1.00 x 0.60	1.8	Ball	80	0.4	UL/CUL	16	4"	8.95	7.95	6.95	5.90
1708457	Sunon	KDE0504PEB3-8 (MS)	5	1.60 x 1.60 x 0.23	3.5	Ball	90	0.45	UL/CUL/TUV	20	6"	9.49	8.49	7.45	6.29
1581249	Sunon	KDE0504PFB3-8	5	1.60 x 1.60 x 0.40	4.6	Ball	70	0.35	UL/CUL	23.5	12"	8.95	7.95	7.15	6.49
196373	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
1581265	Sunon	KDE0504PFS1-8	5	1.60 x 1.60 x 0.40	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.25	4.49
1585442	Sunon	KDE0504PFB2 (MS)	5	1.60 x 1.60 x 0.40	7.0	Ball	140	0.7	None	27	12"	8.95	8.05	6.95	5.95
687789	Sunon	KDE0504PKB3	5	1.60 x 1.60 x 0.80	6.2	Ball	140	0.7	UL/CUL	24	11"	7.95	7.15	6.29	5.29
1708431	Sunon	KD0506PHB2	5	2.36 x 2.36 x 0.60	18.5	Ball	380	1.9	UL/CUL/TUV/CE	32	12"	7.49	6.75	5.95	4.95
355493	Sunon	KD0506PTS3	5	2.36 x 2.36 x 1.00	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/ conn.	8.19	7.37	5.89	4.42
1706257	Delta	AFB0605MB	5	2.36 x 2.36 x 1.50	13.5	Ball	200	1.0	UL/CSA/DE/CE	29	12.9"	12.49	11.25	9.95	8.39
1708449	Sunon	KDE1202PFB1-8 (V)	12	1.00 x 1.00 x 0.40	3.1	Vapo	83	1.0	UL/CUL	33	6"	12.49	11.25	9.95	8.39
1708465	Sunon	KDE1203PFB2-8 (MS)	12	1.18 x 1.18 x 0.40	3.0	Ball	66	0.8	UL/CUL	25	6"	9.95	8.95	7.85	6.65
212783	Sunon	KDE1203PFB1-8	12	1.18 x 1.18 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	10.95	9.86	7.88	5.91
212759	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	10.76	9.68	8.06

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS. ② Blue Part No. = Limited Quantity

RoHS compliant product

③ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

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## DC Brushless Fans (Continued)

**NEW**



**Quantity SAVE**



290010



249375



687754





354933

Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
212760	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	\$11.95	\$10.76	\$9.68	\$8.06
212741	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	10.65	9.54	7.63	5.73
210797	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
355418	ReliaPro	JR-DCF1241010S1	12	1.60 x 1.60 x 0.40	5.2	Sleeve	60	0.72	UL/CUL/TUV/CE	22.6	11.5"	3.25	3.03	2.64	2.42
279611	Toyo	T401012VH	12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	5.95	5.29	4.29	3.19
189691	Sunon	KD1204PFS1-8	12	1.60 x 1.60 x 0.40	6.6	Sleeve	60	0.7	UL/CUL/TUV/CE	30	12"	7.95	7.16	5.72	4.29
1708561	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	6.5	Ball	50	0.6	UL/CUL/TUV	24	12"	4.95	4.49	4.19	3.79
212717	Sunon	KDE1204PFV2.11.MS.A.GN	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	4.95	4.36	3.95
1585469	Y.S. Tech	FD1240107B-2N	12	1.60 x 1.60 x 0.40	6.6	Ball	90	1.08	UL/CUL/TUV	29	6"	6.95	6.25	5.49	4.49
311968	Adda	AD0412HS-G70	12	1.60 x 1.60 x 0.40	6.7	Sleeve	100	1.2	UL/CUL/TUV/CE	25	2.5"	4.25	3.83	3.06	2.29
290010	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn.	4.95	4.60	4.14	3.72
1581257	Sunon	KDE1204PFS2-8	12	1.60 x 1.60 x 0.40	7.0	Sleeve	90	1.1	UL/CUL	28	12"	7.95	7.49	6.59	4.95
212725	Sunon	KDE1204PFV1	12	1.60 x 1.60 x 0.40	8.3	Vapo	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.89	6.22	4.98	3.73
1585434	Sunon	KDE1204PFB1 (MS)	12	1.60 x 1.60 x 0.40	8.5	Ball	110	1.3	UL/CUL	35	12"	7.95	7.15	6.29	5.35
1708473	Sunon	KDE1204PFVX11.MS.A	12	1.60 x 1.60 x 0.40	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	7.95	7.15	6.29	5.35
195899	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.16	5.72	4.29
279620	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	7.29	6.56	5.25	3.94
249375	Adda	AD0412HB-C56 <sup>1</sup>	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	2"	8.95	8.06	6.44	4.83
687754	Sunon	KDE1204PKSX-8	12	1.60 x 1.60 x 0.80	9.5	Sleeve	90	1.1	—	28	11"	8.49	7.59	6.79	5.95
206165	Sunon	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	17"	6.59	6.13	5.93	5.65
1585291	Sunon	GM1204PKVX-A	12	1.60 x 1.60 x 0.80	10.8	Vapo	130	1.60	UL/CUL/CSA	27.5	5"	8.95	8.05	6.95	5.95
212688	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/VDE	29	12"	6.59	5.99	5.49	5.16
1708588	Sunon	KD1205PFS2H	12	2.00 x 2.00 x 0.40	11	Sleeve	91.6	1.1	UL/CUL/TUV	26	12"	7.65	6.85	5.95	4.95
297959	Delta	EFB0512HA	12	2.00 x 2.00 x 0.40	11.4	Ball	150	1.8	UL/CSA/CE/VDE	30	6" w/ conn.	7.65	5.66	4.86	4.43
139602	Adda	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	9.15	8.24	6.59	4.94
1708545	Sunon	KD1205PHB2H	12	2.00 x 2.00 x 0.60	13	Ball	83	1.0	UL/CUL/TUV/CE	29	12"	8.75	7.85	6.95	5.85
1585418	Sunon	KDE1206PFS3-8	12	2.36 x 2.36 x 0.40	11.3	Sleeve	70	0.8	UL/CUL	28.5	12"	6.95	6.49	5.75	4.59
354933	Delta	EFB0612MA	12	2.36 x 2.36 x 0.40	15.5	Ball	120	1.4	UL/CSA/DE/CE	29	12"/3 leads	7.99	7.17	5.75	4.31
687800	Sunon	KDE1206PFS1-8	12	2.36 x 2.36 x 0.40	16.5	Sleeve	120	1.4	UL/CUL/TUV	34.5	11"	7.99	7.19	6.29	5.29
195945	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	7.49	6.69	5.45	4.15
1585400	Sunon	KDE1206PHB3	12	2.36 x 2.36 x 0.60	15	Ball	60	0.7	UL/CSA/CE	26	12"	8.75	7.89	7.09	6.39
249069	Jamicon	JF0615B1H-000-243	12	2.36 x 2.36 x 0.60	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	9.09	8.18	6.95	5.22
687771	Sunon	KDE1206PHS1	12	2.36 x 2.36 x 0.60	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	10" w/ conn.	7.95	7.15	6.49	5.49
1537141	Sunon	KDE1206PHB1	12	2.36 x 2.36 x 0.60	21	Ball	150	1.8	UL/CUL/CE	37.5	12"/3 leads	7.95	7.15	6.49	5.95
144161	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	9.49	8.49	6.99	5.99
189595	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	5.95	5.36	4.30	3.23
1708529	Sunon	KDE1206PTV3 (MS)	12	2.36 x 2.36 x 1.00	16	Vapo	58	0.7	UL/CUL/TUV/CE	21	12"	5.95	5.35	4.75	3.95
689240	Sunon	KDE1206PTB1(M) <sup>2</sup>	12	2.36 x 2.36 x 1.00	22.5	Ball	170	2.0	UL/CSA/TUV/CE	34	12"	6.15	5.59	4.95	4.39
136143	Delta	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	5.36	4.29	3.22
150422	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	7.29	6.49	5.49	4.79
1536923	Jamicon	JF0625B1M	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.76	UL/CUL/TUV/CE	33.6	10"	6.95	6.49	5.75	4.95
195911	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.49	5.84	5.26	4.73
689207	Sunon	KDE1206PTB3	12	2.36 x 2.36 x 1.00	16	Ball	70	.80	UL/CSA/TUV/CE	26	12"	5.95	5.35	4.79	4.29
1708511	Sunon	KDE1206PTS3	12	2.36 x 2.36 x 1.00	16	Sleeve	92	1.1	UL/CSA/TUV/CE	25	12"	5.95	5.35	4.69	3.95
395508	Sanyo	109R0612S402	12	2.36 x 2.36 x 1.00	23	Ball	170	2.04	UL/CSA/TUV	33	6"	5.95	5.36	4.28	3.21
1776265	Delta	FFB0612EHE	12	2.36 x 2.36 x 1.50	50.2	Ball	800	9.6	UL/CSA/VDE/CE	54.5	12.8"	17.95	15.95	11.86	11.04
401269	Delta	AFB0812LB	12	3.15 x 3.15 x 0.60	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	9.35	6.81	6.40	4.80
109082	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
1708570	Sunon	KD1208PHB1-AH	12	3.15 x 3.15 x 0.60	35	Ball	240	2.9	UL/CUL/TUV/CE	39.5	12"	9.49	7.95	6.95	6.19
141921	Adda	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.95	6.56	6.23	5.92
1708596	Sunon	KD1208PKB3(2).H	12	3.15 x 3.15 x 0.80	31	Ball	108	1.3	UL/CUL/TUV/CE	33	12"	5.95	5.35	4.75	3.95
1537301	Panafluo	FBA08A12L	12	3.15 x 3.15 x 1.00	24	Sleeve	68	0.82	UL/CSA	21	11.5"	7.95	7.49	6.59	5.25
16993	Various	FAN731SL <sup>3*</sup>	12	3.15 x 3.15 x 1.00	25-40	Sleeve	120-200	1-2	UL/CSA	25	4-12"	9.25	8.31	6.64	4.98
75361	Various	FAN6315BL <sup>3*</sup>	12	3.15 x 3.15 x 1.00	25-40	Ball	120-200	1-2	UL/CSA	25	4-12"	5.95	5.36	4.28	3.21
688597	NMB	3110GL-B4W-B19	12	3.15 x 3.15 x 1.00	24.7	Ball	100	1.2	UL/CSA/TUV/CE	22	7" w/ conn.	6.95	6.25	5.49	4.69
234895	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5	8.19	6.39	5.89	5.49
286926	Toyo	USTF802512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	8.35	7.52	6.02	4.52
154289	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	7.49	6.79	5.99	4.99
123530	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	8.35	7.52	6.00	4.50

<sup>1</sup> 249375: Speed sensor <sup>2</sup> 689240: Locked rotor alarm sensor <sup>3</sup> 16994: Replacement for PC/XT computer power supply fan \* Mfr. & specifications may vary

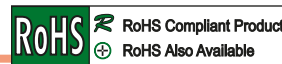
♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

# DC Brushless Fans & Blowers



Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

Call for additional OEM PRICING – we carry major manufacturers.

NEW

## DC Brushless Fans (Continued)

Quantity SAVE

Lower \$\$\$

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
265578	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35	5"	\$5.29	\$4.76	\$3.81	\$2.86
1776273	Delta	AFB0812H	12	3.15 x 3.15 x 1.00	35.3	Ball	160	1.9	UL/CSA/VDE/CE	31	12"	13.75	9.09	8.59	8.26
1537387	Sunon	KD1208PTB213.(2).GN	12	3.15 x 3.15 x 1.00	37	Ball	110	1.3	UL/CUL/TUV/CE	32	11.5" w/ conn.	8.95	8.09	7.49	6.95
1585477	Sunon	KD1208PTS1-13	12	3.15 x 3.15 x 1.00	40	Sleeve	160	1.90	UL/CUL/TUV/CE	33	12"	5.95	5.49	4.95	4.49
1708490	Sunon	KDE1208PTB1-13.MS(2)A	12	3.15 x 3.15 x 1.00	41	Vapo	150	1.8	UL/CUL/TUV/CE	35	12"	8.95	7.95	6.59	5.75
206181	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	7.14	6.47	5.82	5.22
355401	ReliaPro	JR-DCF128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.89	5.71	5.38	5.11
1581273	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	12"	6.95	6.49	5.95	5.25
323897	Mechatronics	F8025E12B1	12	3.15 x 3.15 x 1.00	46	Ball	240	2.88	UL/CUL/TUV	32	3/3 leads	6.99	5.09	4.79	4.45
421526	Panasonic	FBA08A12U-1AZ	12	3.15 x 3.15 x 1.00	47	Sleeve	360	4.32	UL/CSA	38.2	11"	6.69	6.02	4.82	3.61
196023	Jamicon	JF0925B1M	12	3.63 x 3.63 x 1.00	45.4	Ball	200	2.4	UL/CSA/TUV	34	10"	6.05	5.43	4.88	4.32
154641	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.80	5.44	4.08
190984	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	8.70	7.83	6.27	5.48
162739	NMB (Smart Fan)	3610KL-04W-B56	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10/3 leads	7.95	7.16	5.72	4.29
689215	Sunon	KDE1209PTB1-6A	12	3.63 x 3.63 x 1.00	56	Ball	360	4.3	UL/CUL/CE	39	11"	7.95	7.16	5.72	4.29
102963	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	7.16	5.72	4.29
1776281	Delta	AFB0912HH	12	3.63 x 3.63 x 1.00	57.9	Ball	250	3.0	UL/CSA/VDE/CE	38	12"	13.75	9.09	8.59	8.26
174140	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.29	5.05	3.79
689231	Sunon	KDE1212PTS3-6A	12	4.68 x 4.68 x 1.00	67	Sleeve	200	2.4	UL/CUL/TUV/CE	35	12"	8.49	7.65	6.69	5.49
227901	Common Wealth	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	13.15	11.82	10.67	9.59
363848	Mechatronics	E1225H12B	12	4.68 x 4.68 x 1.00	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	12.95	11.66	10.99	10.99
689856	Sunon	KDE1212PTB1-6A	12	4.68 x 4.68 x 1.00	90	Ball	400	4.8	UL/CUL/TUV/CE	44.5	12" w/ conn.	12.95	11.59	10.49	8.95
163619	NMB (Smart Fan)	4710NLO12P535P0	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	None	38.5	12"	6.29	5.68	4.56	3.42
1537133	Delta	WFB1212HH	12	4.68 x 4.68 x 1.00	95.4	Ball	610	7.3	UL/CSA/CE	42.5	4" w/ conn.	10.95	10.49	9.75	7.99
1585389	Japan Servo	CNDC12B4C-016	12	4.68 x 4.68 x 1.50	99	Ball	380	4.6	UL/CSA/TUV	40	12"	13.95	12.49	10.95	9.29
686516	Adda	AD1212HB-F51	12	4.68 x 4.68 x 1.50	104.8	Ball	500	6	UL/CUL/CSA/TUV/CE	42.8	11" w/ conn.	13.95	12.49	10.95	7.95
1537221	Sunon	KDE1212PMB3-6A	12	4.68 x 4.68 x 1.50	84	Ball	570	6.8	UL/CUL/CE	42	12" w/ conn.	12.95	12.49	10.95	9.25
1537467	Comair	QJ12B7X	12	6.77 x 5.90 x 2.00	235	Ball	2260	25.2	UL/CSA/TUV/CE	54.3	12"/3 leads	69.95	62.95	56.95	52.95
687826	Sunon	KDE2404PKB2	24	1.60 x 1.60 x 0.80	7	Ball	40	1.0	UL/CUL/TUV	29	11"	7.95	7.15	6.49	5.29
1776290	Delta	EFB0424HD	24	1.60 x 1.60 x 0.80	8.5	Ball	60	1.44	UL/CSA/VDE/CE	28.5	13"	8.59	7.74	7.39	6.96
1708422	Sunon	KDE2406PHS3	24	2.36 x 2.36 x 0.60	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	7.15	6.29	5.35
687818	Sunon	KDE2406PHB3	24	2.36 x 2.36 x 0.60	15.2	Ball	50	1.2	UL/CUL/TUV	26.5	11"	8.49	7.59	6.59	5.49
421518	Panasonic	FBA06T24H	24	2.36 x 2.36 x 0.60	16.6	Sleeve	110	1.99	UL/CSA	32	11"	8.09	7.03	6.31	5.70
140661	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	None	31	2"	5.95	5.39	4.34	3.24
174108	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	5.79	5.21	4.69	4.22
189861	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.06	7.25	6.52
227248	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.29
687797	Sunon	KDE2408PTS3-6	24	3.15 x 3.15 x 1.00	29.4	Sleeve	60	1.5	None	24.5	4" w/ conn.	8.95	7.95	6.95	5.79
290029	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	7.42	6.59	5.75
1581071	Pabst	8124K	24	3.15 x 3.15 x 1.50	35	Ball	125	3.0	UL	39	12"	29.95	26.95	23.95	19.95
662653	Panaflo	FB08A24M1A	24	3.15 x 3.15 x 1.00	32.1	Sleeve	100	2.4	UL/CSA	28	11.5"	7.95	5.95	4.95	4.49
136161	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.59	8.64	7.77	6.99
1708502	Sunon	KDE2405PTS3-6	24	3.63 x 3.63 x 1.00	39	Sleeve	112	2.7	UL/CUL/TUV/CE	27	12"	9.49	7.29	6.69	6.09
189886	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.29
695042	Sunon	KDE2409PTB1-6	24	3.63 x 3.63 x 1.00	51	Ball	140	3.4	None	37	12"	8.95	8.49	7.49	6.39
174094	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	7.95	7.16	6.57	5.99
249287	Jamicon	JF1225B2H5	24	4.68 x 4.68 x 1.00	83	Ball	500	12	None	41.1	7.5"	12.39	11.15	8.92	6.69
1708537	Sunon	KDE2412PMS3-6A	24	4.68 x 4.68 x 1.50	83	Sleeve	160	4	UL/CUL/TUV/CE	34	12"	14.95	13.45	11.75	9.95
694516	Jamicon	JF1238B2LR130-065R	24	4.68 x 4.68 x 1.50	84.5	Ball	130	3.12	UL/CSA/TUV/CE	33.8	9.5"	16.95	15.49	13.25	11.95
153411	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.75	8.65	7.33
694444	Jamicon	JF1238S2MR130-065R	24	4.68 x 4.68 x 1.50	101.3	Sleeve	220	5.28	UL/CSA/TUV/CE	39.1	9.5"	15.95	14.35	12.95	11.49
694524	Jamicon	JF1238B2MR130-065R	24	4.68 x 4.68 x 1.50	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9.5"	16.95	15.49	13.25	11.95
694532	Jamicon	JF1238B2HR130-065R	24	4.68 x 4.68 x 1.50	118.7	Ball	310	7.44	UL/CSA/TUV/CE	43.8	9.5"	16.95	15.49	13.25	11.95
689063	EBM	W2G115-AG75-85	48	5.00 x 5.00 x 1.50	155	Ball	310	15	UL/CUL	52	10/3 leads	49.95	44.95	39.39	33.95

1 323897: Speed sensor    † Temperature control: 162739 (50°C, 3 leads); 163619 (35°C)

## DC Brushless Blowers

Quantity SAVE

Part No.	Manufacturer	Product No.	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
614951	Delta	BFB0721H	12	2.98 x 2.98 x 1.20	11.3	Ball	60	0.72	UL/CSA/VDE/CE	38	12" leads	\$11.79	\$10.61	\$8.49	\$6.37
645028	Evercool	EC9733H12C-B	12	3.83 x 3.64 x 1.27	23.6	Sleeve	260	3.12	CE	33	14" w/ conn.	20.15	14.16	13.30	9.98
213567	Nidec	A34124-33	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5"/3 leads	22.95	18.32	14.66	12.54

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller

- Agency approved
- Low power consumption
- Low acoustical noise rating


















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695691



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Part Number	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise dBA	Connection (Leads)	Pricing		
											1	10	100
695789	032604 (CR0405HB-G70) 	5	1.57 x 1.57 x 0.40	6.8	Ball	244	0.95	None	25.0	12"	\$8.75	\$8.03	\$7.06
695797	032622 (CR0412HB-C50) 	12	1.57 x 1.57 x 0.80	6	Ball	100	1.2	None	31.9	12"	8.75	7.63	7.06
695711	031156 (FS12B3) 	12	2.36 x 2.36 x 1.00	18	Ball	142	1.7	UL/CSA/TUV/CE	33.9	12"	32.55	25.81	19.72
695703	031101 (WT12B3) 	12	3.15 x 3.15 x 1.26	15	Ball	420	5.1	UL/CUL/TUV	52.2	12"	33.35	32.95	32.55
695682	030615 (ST12B3) 	12	3.15 x 3.15 x 1.26	34	Ball	280	3.4	UL/CSA/TUV	40.9	12"	18.95	18.74	18.52
695623	028868 (MD12B2) 	12	4.69 x 4.69 x 1.54	110	Ball	500	6	UL/CSA/TUV	50.0	Terminals	42.65	41.04	39.43
695658	028885 (MD12B5) 	12	4.69 x 4.69 x 1.54	110	Ball	500	6	UL/CSA/TUV	50.0	12"	37.99	37.71	37.45
695771	032489 (MC12B3) 	12	4.73 x 4.73 x 1.26	102	Ball	660	7.9	UL/CSA/TUV	47.8	12"	24.85	21.12	16.14
695720	031157 (FS24B3) 	24	2.36 x 2.36 x 1.00	18	Ball	80	1.9	UL/CSA/TUV/CE	33.9	12"	30.35	24.14	17.70
695674	030614 (ST24K3) 	24	3.15 x 3.15 x 1.26	40	Ball	220	5.3	UL/CSA/TUV	44.2	12"	21.65	19.71	15.59
695615	028866 (MD24B1) 	24	4.69 x 4.69 x 1.54	110	Ball	250	6	UL/CSA/TUV/CE	50.0	12"	42.19	40.82	39.44
695631	028869 (MD24B2) 	24	4.69 x 4.69 x 1.54	110	Ball	250	6	UL/CSA/TUV/CE	50.0	Terminals	42.19	40.83	39.45
695666	030572 (MC24B3) 	24	4.73 x 4.73 x 1.26	102	Ball	280	6.7	UL/CSA/TUV	47.8	12"	24.95	23.62	20.38
695691	031090 (JQ24B4) 	24	6.75 x 5.90 x 2.00	235	Ball	850	20.3	UL/CSA/TUV	54.3	Terminals	69.29	67.19	65.18
695640	028870 (MD48B2) 	48	4.69 x 4.69 x 1.54	110	Ball	125	6	UL/CSA/TUV	50.0	Terminals	42.19	40.82	39.44

## AC Tube Axial Fans

- Rating 115 & 220VAC @ 50-60Hz
- Agency approved fans

- Low acoustical noise rating
- Ball and sleeve bearings






















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Part Number	Product Number	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise dBA	Connection (Leads)	Pricing		
											1	10	100
695535	028286 (SU2B1) 	115	3.14 x 3.14 x 1.65	34	Ball	150	11	UL/CSA/VDE	40.3	12"	\$28.75	\$27.72	\$19.74
695578	028410 (SU2B5) 	115	3.14 x 3.14 x 1.65	34	Ball	150	11	UL/CSA/VDE	40.3	Terminals	28.75	27.72	19.74
695560	028316 (MX2A3) 	115	4.69 x 4.69 x 1.54	110	Sleeve	180	15	UL/CSA/VDE	47.6	Terminals	24.85	22.45	22.05
695586	028422 (MX2B3) 	115	4.69 x 4.69 x 1.54	110	Ball	180	15	UL/CSA/VDE	47.6	Terminals	37.45	36.12	32.55
695501	028027 (MU2B1) 	115	4.71 x 4.71 x 1.50	105	Ball	160	14	UL/CSA	45.1	Terminals	35.55	34.31	24.44
695498	028021 (MU2A1) 	115	4.71 x 4.71 x 1.50	105	Sleeve	160	14	UL/CSA	45.1	Terminals	24.05	23.22	20.93
695607	028454 (BT2B1) 	115	4.75 x 4.75 x 1.60	22	Ball	170	14.5	UL/CSA/TUV/CE	—	Terminals	38.85	34.70	30.57
695519	028245 (MR2B3) 	115	6.15 x 5.92 x 2.00	235	Ball	260	31	UL/CSA/VDE	56.6	Terminals	59.09	55.76	52.44
695527	028254 (PT2B3) 	115	6.75 dia. x 2.0 thick	235	Ball	260	31	UL/CSA/VDE	54.0	Terminals	59.99	57.53	52.43
695738	031842 (MA2B3) 	115	6.75 x 5.92 x 2.17	300	Ball	360	50	UL/CUL/TUV/CE	56.5	Terminals	70.75	70.09	69.74
695439	020169 (TNE2C) 	115	6.90 x 6.90 x 4.40	330	Ball	530	56	UL/CSA/TUV	65.4	12"	86.39	79.99	75.95
695455	020174 (TNE2A) 	115	6.90 x 6.90 x 4.40	330	Ball	530	56	UL/CSA/TUV	65.4	Terminals	88.35	85.22	60.72
695463	020188 (CLE2L2) 	115	10 dia. x 3.5 thick	550	Ball	480	34	UL/CSA/TUV/CE	49.2	24"	57.55	57.00	56.83
695471	020189 (CLE2T2) 	115	10 dia. x 3.5 thick	550	Ball	480	34	UL/CSA/TUV/CE	49.2	Terminals	71.95	64.95	59.95
695594	028423 (MX3B3) 	230	4.69 x 4.69 x 1.54	110	Sleeve	90	16	UL/CSA/VDE	47.6	Terminals	36.65	34.60	32.55
695551	028309 (MR77B3) 	230	6.75 x 5.92 x 2.00	235	Ball	140	30	UL/CSA/TUV/CE	56.6	Terminals	60.59	58.47	52.69
695746	031844 (MA77B3) 	230	6.75 x 5.92 x 2.17	300	Ball	180	—	UL/CUL/TUV/CE	56.6	Terminals	70.69	70.19	69.74
695447	020172 (TNE3A) 	230	6.90 x 6.90 x 4.40	330	Ball	260	59	UL/CSA/TUV	65.4	Terminals	88.35	85.22	60.72
695480	020191 (CLE3T2) 	230	10 dia. x 3.5 thick	250	Ball	550	—	UL/SCA/TUV/CE	49.2	Terminals	71.15	58.91	45.45



### Fan Guards

Compatible with Comair DC and AC Fans (above)

- Guards and filters fit all fans. Please match by size dimension.



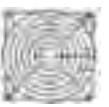
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696651



696571



696642



696677












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
696589




696597

Part No.	Product No.	Description	1	10	100
696685	572621 	2.09" dia., steel nickel chrome finish	\$2.95	\$2.58	\$2.32
696651	551147 	4.68" dia.	2.99	2.35	2.07
696571	476042 	4.31" dia., steel zinc plated	1.79	1.53	1.38
696642	550481 	4.68" dia.	.95	.90	.87
696677	552934 	4.62" dia., steel zinc plated	2.65	2.29	2.06
696669	551199 	6.75" dia., steel zinc plated	3.79	3.33	3.00
696634	550272 	6.75" dia., steel zinc plated	4.15	3.72	3.35
696589	476136 	8.74" dia., steel nickel chrome	6.49	5.81	4.63
696597	476323 	8.25" dia., steel zinc plated	5.35	4.76	4.31

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# AC Tube Axial Fans

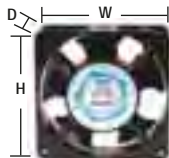
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RoHS Also Available

Details  
on  
Page 1

Color Code Legend  
New Sale Lower\$ QtySave



212600



275793



Call for additional OEM PRICING – we carry major manufacturers.

- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 11 to 226 CFM

Lower \$\$\$

Fan Power  
Cords  
Below



206309



209365

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
213867	Fulltech	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$15.95	\$14.39	\$12.95	\$11.65
162704	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	13.95	12.55	11.64
146078	Common Wealth	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	13.99	12.99	11.99	10.99
300557	Fulltech	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300258	Fulltech	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	10.19	9.18	8.87	8.57
300582	Fulltech	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	10.55	9.47	9.15	8.83
300303	Fulltech	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	11.75	11.05	10.69	10.32
300329	Fulltech	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	10.55	9.50	9.19	8.87
300600	Fulltech	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	13.39	12.04	11.26	10.67
300389	Fulltech	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
75460	Sunon	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	19.14	17.27	15.54	13.98
75433	Sunon	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.55	11.29	10.19	9.15
303467	Sunon	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	17.39	16.69	15.07	12.75
1708617	Sunon	SP103AT-1122LBT	115	4.68 x 4.68 x 1.00	54	Ball	110	11.5	CE	40	Terminals	12.95	12.15	10.65	9.25
124063	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
303408	Sunon	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	16.45	15.35	14.25	13.15
303415	Common Wealth	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.26	12.20	9.46
303482	Fulltech	UF12A11SWL	115	4.68 x 4.68 x 1.50	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	12.85	11.54	10.77	10.23
303361	Fulltech	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	13.89	12.46	11.62	11.05
1585371	Sunon	SP103A-1123LBL	115	4.68 x 4.68 x 1.50	78	Ball	130	11	UL/CSA/TUV	39	6" w/ conn.	12.95	11.65	10.25	8.95
300792	Fulltech	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111895	Common Wealth	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	16.74	15.11	13.62	12.23
106585	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	16.89	15.22	12.93	9.70
16935	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	17.89	16.12	14.49	13.06
212600	Fulltech	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.39	14.22	13.03	11.84
275793	Sunon	SP101A-1123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CUL/CE	50	Terminals	13.45	12.58	11.23	10.67
1707163	Sunon	SP101A-1123HB2.GN	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CSA/TUV	50	12" leads	12.95	11.95	10.49	8.95
206309	Adda	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	UL/CUL/CE	48	Terminals	14.95	13.00	10.76	8.96
102884	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	15.59	14.54	13.50	12.46
108725	Fulltech	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	36.59	34.35	27.48	24.45
212582	Fulltech	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	29.95	29.60	26.61	26.05
189684	Fulltech	UF15PC11BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	33.65	30.30	24.23	21.52
1585311	Sunon	A1175-HBT	115	6.75 x 5.90 x 2.00	239	Ball	230	27	UL/CUL/TUV/CE		Terminals	54.95	49.95	43.95	34.00
355629	Fulltech	UF-80A23-BTH	220	3.15 x 3.15 x 1.50	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	11.39	10.26	9.75	9.26
100918	Sunon	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	11.09	8.89	8.00	6.78
209365	Bi-Sonic	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	14.89	13.41	11.17	10.60
302244	Rotron	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	14.95	13.49	11.85	8.89
303459	Sunon	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102892	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65
1585346	Sunon	A2123-HBL	220	4.68 x 4.68 x 1.50	117	Ball	120	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.75	9.95
1585338	Sunon	A2123-HBT	220	4.68 x 4.68 x 1.50	117	Ball	120	20	UL/CUL/TUV	50	Terminals	15.35	14.35	12.65	10.75

## Fan Guards and Filters

Compatible with DC and AC Fans – pages 170-174

• Guards and filters fit all fans. Please match by size dimension. Example: P/N 300557 fan (3.15") matches P/N 31923 metal guard (3.15").

Part No.	Description	1	10	100	250
120037	2.36" metal (chrome) guard	\$62	\$54	\$42	\$315
687666	2.36" steel (anodized) guard	.95	.85	.74	.59
31923	3.15" metal (chrome) guard	.79	.65	.51	.44
123511	3.63" metal (chrome) guard	.89	.79	.62	.53
25734	4.68" metal (chrome) guard	1.09	.98	.88	.79
695068	4.68" steel (black) guard	1.09	.98	.88	.79

Part No.	Description	1	10	100	250
695076	5.00" metal (chrome) guard	\$1.59	\$1.39	\$1.25	\$1.06
138562	3.15" plastic guard w/ mesh	1.59	1.45	1.29	1.09
229665	3.63" plastic guard w/ mesh	1.75	1.55	1.25	.95
196817	4.68" plastic guard w/ mesh	2.15	1.71	1.53	1.38
138579	3.15" alum. washable filter	2.95	2.66	2.12	1.59
130105	4.68" alum. washable filter	3.49	3.19	2.75	2.49



687666



138579/130105


## Fan Power Cords: 24" Straight and Right-Angle


• Cord type: SPT-1 (2) conductor black • Voltage rating: 300V • Temperature: 60°C • Fits all terminal fans

Part No.	Description	Length	1	10	100	250
28564	Straight socket cord	24"	\$ .99	\$ .88	\$ .70	\$ .65
696562	Comair Rotron 90° angle socket cord	24-26"	1.44	1.24	1.15	1.12



28564

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



Call for special versions and large quantities





## 65-Watt MPS-65 Series: Open Frame, Low Leakage, Single Output

PERFORMANCE  
At Value Prices

- 100% full load burn-in test
- High-efficiency, low heat generation
- 2.9 watts/in<sup>2</sup> max.
- Working temp.: -10°C to + 60°C
- Inrush current: 20A @ 120VAC
- Load regulation: ±2.0%, except 221058, 221146: ±3.0%
- Soft-start circuit, limiting AC surge current
- Size: MPS-45: 5.0"L x 3.0"W x 1.06"H; MPS-65: 5.0"L x 3.0"W x 1.65"H
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Universal AC input
- Isolation voltage: 4000VAC
- Voltage adjustment: 10%
- Leakage current: 0.3mA @ 240V
- Line regulation: ±1.0%
- Mating connector: P/N 104731, pg 125
- Weight: 0.6 lbs.
- Three-year warranty



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
221154	Mean Well 	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	\$37.39	\$33.65	\$30.29
221162	Mean Well 	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	37.39	33.65	30.29

\* Primary Output

See page 253 for more Medical Power Supplies

## Ultraminiature 5 to 20-Watt Power Supplies

- 100% full burn-in test
- Universal AC input/full range
- Three year warranty
- Ultra miniature size and lightweight

- UL/CUL/TUV/CE
- Short circuit, overload, overvoltage, overtemperature protection
- No load consumption



PERFORMANCE  
At Value Prices

### 5-Watt NFM-5000 Series

- Size: 2.28"L x 1.77"W x 0.75"H
- Inrush current: 25A @ 115VAC
- Pin-mount

### 10-Watt NFM-0100 Series





















- Size: 2.56"W x 1.77"L x 0.87"H
- Inrush current: 25A @ 115VAC
- Pin-mount

### 15-Watt NFM-1500 Series

- Size: 2.76"L x 1.89"W x 0.87"
- Inrush current: 30A @ 115VAC
- Pin-mount

### 20-Watt NFM-0200 Series


- Size: 3.0"L x 2.0"W x 0.76"
- Inrush current: 30A @ 115VAC
- Chassis-mount
- Mating connector: P/Ns 463435 & 463443, pg 125

Jameco Part No.	Product No.	Output		Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing		
		Voltage@Current (min-max)	Power				1	10	25
694962	NFM-05-3.3 	+3.3V@0-1.25A	4.13W	±1.5%	±1.0%	80	\$22.99	\$20.99	\$18.99
694971	NFM-05-5 	+5V@0-1A	5.0W	±1.5%	±1.0%	80	22.99	20.99	18.99
694989	NFM-05-12 	+12V@0-0.42A	5.04W	±0.5%	±0.5%	150	22.99	20.99	18.99
695009	NFM-05-15 	+15V@0-0.33A	4.95W	±0.5%	±0.5%	150	22.99	20.99	18.99
694997	NFM-05-24 	+24V@0-0.23A	5.52W	±0.5%	±0.5%	240	22.99	20.99	18.99
695084	NFM-10-3.3 	+3.3V@0-2.5A	8.25W	±1.0%	±1.0%	80	26.99	24.99	22.99
695092	NFM-10-5 	+5V@0-2A	10.0W	±1.0%	±1.0%	80	26.99	24.99	22.99
695105	NFM-10-12 	+12V@0-0.85A	10.2W	±0.5%	±0.5%	150	26.99	24.99	22.99
695113	NFM-10-15 	+15V@0-0.67A	10.05W	±0.5%	±0.5%	150	26.99	24.99	22.99
695121	NFM-10-24 	+24V@0-0.42A	10.08W	±0.5%	±0.5%	240	26.99	24.99	22.99
695148	NFM-15-3.3 	+3.3V@0-3.5A	11.55W	±1.0%	±1.0%	80	30.39	27.99	25.99
695130	NFM-15-5 	+5V@0-3A	15.0W	±1.0%	±1.0%	80	30.39	27.99	25.99
695156	NFM-15-12 	+12V@0-1.25A	15.0W	±0.5%	±0.5%	150	30.39	27.99	25.99
695164	NFM-15-15 	+15V@0-1A	15.0W	±0.5%	±0.5%	150	30.39	27.99	25.99
695172	NFM-15-24 	+24V@0-0.63A	15.12W	±0.5%	±0.5%	240	30.39	27.99	25.99
695181	NFM-20-3.3 	+3.3V@0-4.5A	14.85W	±1.0%	±1.5%	80	33.99	31.99	29.99
695199	NFM-20-5 	+5V@0-4.4A	22.0W	±1.0	±1.5%	80	33.99	31.99	29.99
695201	NFM-20-12 	+12V@0-1.8A	21.6W	±0.5%	±0.5%	150	33.99	31.99	29.99
695210	NFM-20-15 	+15V@0-1.4A	21.0W	±0.5%	±0.5%	150	33.99	31.99	29.99
695228	NFM-20-24 	+24V@0-0.92A	22.08W	±0.5%	±0.5%	240	33.99	31.99	29.99

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 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
 New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

175

# 15 to 65-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 15 to 65-Watt Open-Frame Power Supplies

Enclosed Power Supplies  
on pages 180-186.

• 100% full burn-in test

• Universal AC input



PS-25



PSA15



PS-65

### 25-Watt PS-25 & PD-25 Series: Single & Dual Outputs

- Inrush current: 40A @ 120VAC
- Size: 4.20"L x 2.40"W x 1.10"H
- Working temp.: -10°C to +60°C
- Two-year warranty

PERFORMANCE  
At Value Prices

### 15 & 25-Watt PSA15 & PSA25 Series: Single & Triple Outputs

- Load regulation: ±2.0%
- Isolation voltage: 3,000VAC
- Inrush current: 30A @ 120VAC
- Size: 4.33"L x 1.57"W x 0.91"H (except 230536: 3.6"L x 2.5"W x 1.1"H)
- Line regulation: ±1.0%
- Voltage adjustment: 5% (PSA15 only)
- Working temp.: 0° to +40°C
- One-year warranty



### 45-Watt PSA45 Series: Triple Outputs

- Load regulation: ±2.0%
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- One-year warranty
- Line regulation: ±2.0%
- Working temp.: 0° to +50°C
- Weight: 0.9 lbs.

Call for special versions and large quantities

### 45-Watt PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

- Load regulation: ±3.0% (except 213728/213720//374362: ±2.0%)
- Line regulation: ±1.0%
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.06"H
- Voltage adjustment: 10%
- Working temp.: -10°C to +60°C
- Two-year warranty

PERFORMANCE  
At Value Prices

### 65-Watt PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

- Load & Line regulation: ±1.0% to ±4.0%
- Voltage adjustment: 10%
- Working temp.: -10°C to +60°C
- Size: 5.0"L x 3.0"W x 1.65"H
- Inrush current: 20A @ 120VAC
- Two-year warranty
- Weight: 0.6 lbs.

PERFORMANCE  
At Value Prices



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
212362	Mean Well	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	\$28.15	\$26.19	\$24.25
212354	Mean Well	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	20.95	20.18	19.43
392826	Mean Well	PS-25-7.5	+7.5V@0-3.3A	24.8W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	18.26	17.58
148604	Mean Well	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	20.45	19.67	18.94
216769	Mean Well	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	17.45	16.56	15.74
212346	Mean Well	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	20.29	19.56	18.83
212312	Mean Well	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	16.96	12.72
212338	Mean Well	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	21.25	20.48	18.80
212330	Mean Well	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
148690	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	24.83	22.99	19.99
229060	Phihong	PSA15LN3-120	+12V@0-1.25A	15.0W	90-264@47-63	120	UL/CUL/TUV/CE	17.95	16.95	16.19
230536	Phihong	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25.0W	90-264@47-63	50	UL/CUL/TUV/CE	25.15	22.63	20.31
229122	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	32.09	28.91	26.00
217332	Mean Well	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	22.95	19.51	14.63
213728	Mean Well	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	28.59	20.89	17.59
374353	Mean Well	PS-45-15	+15V@0-3.5A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
213720	Mean Well	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
194862	Mean Well	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
194871	Mean Well	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	20.99	17.99
88402	Mean Well	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	32.35	24.94	22.56
201938	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	31.05	26.58	22.14
148639	Mean Well	PS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
374380	Mean Well	PS-65-13.5	+13.5V@0-5.4A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
216751	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	28.55	24.43	20.35
148647	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	31.59	26.68	23.20
201946	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	28.49	24.43	20.35
201954	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
194889	Mean Well	PD-65A	+5V@0.4-7A; +12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
194897	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	36.69	27.71	24.25
216734	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	38.79	30.02	26.56
216726	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
215707	Mean Well	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	26.45	23.80	21.40

\* Primary Output

More Power Supplies at [www.Jameco.com/Prod/PowerSupplies](http://www.Jameco.com/Prod/PowerSupplies)

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# 25 to 75W Open-Frame Switching AC-to-DC Power Supplies

**NEW**

• Universal input

## 25 to 75-Watt Open-Frame Power Supplies

Call for special versions and large quantities

### 25-Watt

**LPS & LPT Series:**

**Single & Triple Outputs**

- 25W for convection; 40W with 30CFM forced air
- Inrush current: 15A@115VAC; 30A@230VAC
- Efficiency: 70%
- Line regulation:  $\pm 2.0\%$
- Overload, overvoltage protection
- Size: 5.0"L x 3.0"W x 1.14"H

### 40-Watt

**LPS & LPT Series:**

**Single & Triple Outputs**

- 40W for convection; 55W with 30CFM forced air
- Inrush current: 18A@115VAC; 36A@230VAC
- Efficiency: 70%
- Line regulation:  $\pm 2.0\%$
- Overload, overvoltage protection
- Size: 5.0"L x 3.0"W x 1.14"H

### 60-Watt

**LPS & LPT Series:**

**Single Outputs**

- Overload, overvoltage and short circuit protection
- Line regulation:  $\pm 2.0\%$
- Size: 5.0"L x 3.0"W x 1.14"H
- LPS50**
  - Inrush current: 60A@230VAC
  - Efficiency: 80%-85%
  - 55W for convection
- LPS60/LPT60**
  - Inrush current: 18A@115; 36@230
  - Efficiency: 60W for convection; 80W with 30CFM forced air

### 75-Watt

**PSA075 Series:**

**Single Output**

- Universal AC input
- Efficiency: +5V-65%; +12V-70%
- Inrush current: 40A@120VAC; 80A@240VAC
- Size: 5.0"L x 3.0"W x 1.3"H
- 200CFM forced air required
- Operating temp.: 0°C to 50°C
- Overvoltage, short circuit protection

### 75-Watt

**NTQ123 Series:**

**Quad Output**

- Universal AC input
- Inrush current: 38A max.
- Size: 7.0"L x 4.0"W x 1.5"H
- Power failure, remote inhibit, remote sense logic controls
- 70W convection; 120W with 30CFM forced air
- Efficiency: 65% typical at full load
- Overvoltage, overload, thermal overload protection



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Enclosed Power Supplies on pages 180-186.



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing	
			Voltage@Current (min-max)	Power				1	10
1773427	Astec	LPS22	+5V@0-5A	25.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	\$39.39	\$36.32
1773435	Astec	LPS23	+12V@0-2.1A	25.2W	85-264@47-440	120	UL/CSA/VDE/CE/CB	39.39	36.16
1773603	Astec	LPT22	+5V@0.3A-3A; +12V@0.1A-1.5A; -12V@0.5A	25.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	37.69	34.74
1773611	Astec	LPT23	+5V@0.4A-4A; +12V@0.1A-1.5A; -12V@0-0.5A	25.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	41.09	37.73
1773638	Astec	LPT25	+5V@0.3A-3A; +15V@0.1A-1.5A; -15V@0-0.5A	25.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	41.09	37.90
1773507	Astec	LPS41	+3.3V@0-8A	26.4W	85-264@47-440	50	UL/CSA/CE/CB	41.35	39.47
146894	Astec	LPS42	+5V@0-8A	40.0W	85-264@47-440	50	UL/CSA/CE/CB	45.95	41.95
151124	Astec	LPS43	+12V@0-3.3A	36.6W	85-264@47-440	120	UL/CSA/CE/CB	42.39	37.49
1773523	Astec	LPS45	+24V@0-1.7A	40.0W	85-264@47-440	240	UL/CSA/CE/CB	42.79	39.30
173104	Astec	LPT42	+5V@0.4A; +12V@0-0.5A; -12V@0-0.5A	40.0W	85-264@47-440	50	UL/CSA/CE/CB	38.99	37.49
1773662	Astec	LPT43	+5V@0.5A-6A; +12V@0-0.5A; -12V@0-0.5A	40.0W	85-264@47-440	50	UL/CSA/CE/CB	44.55	41.05
1773700	Astec	LPT45	+5V@0.4A-4A; +15V@0.2A-2A; -15V@0-0.5A	40.0W	85-264@47-440	50	UL/CSA/CE/CB	70.25	63.81
1773726	Astec	LPT46	+5V@0.4A-4A; +24V@0.1A-1A; -12V@0-0.5A	40.0W	85-264@47-440	50	UL/CSA/CE/CB	39.39	36.29
1773531	Astec	LPS52	+5V@0-11A	55.0W	90-264@47-440	50	UL/CSA/TUV/CE/CB	48.65	43.09
190668	Astec	LPS62	+5V@0-12A	60.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	59.95	55.99
1773574	Astec	LPS63	+12V@0.5A	60.0W	85-264@47-440	120	UL/CSA/VDE/CE/CB	56.45	52.00
1773582	Astec	LPS64	+15V@0-4A	60.0W	85-264@47-440	150	UL/CSA/VDE/CE/CB	56.45	51.83
1773591	Astec	LPS65	+24V@0-2.5A	60.0W	85-264@47-440	240	UL/CSA/VDE/CE/CB	56.45	52.58
1773777	Astec	LPT63	+5V@0.7A-7A; +15V@0.3A-2.8A; -15V@0-0.7A	60.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	59.99	55.07
171281	Astec	LPT65	+5V@0.7A-7A; +12V@0-0.7A; +24V@0.1A-1.5A	60.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	59.95	55.09
1586285	Phihong	PSA075-050-R	+5V@0-11A	55.0W	90-264@47-63	100	UL/CUL/TUV/CE	29.55	28.64
1586293	Phihong	PSA075-120-R	+12V@0-6.25A	75.0W	90-264@47-63	120	UL/CUL/TUV/CE	29.55	28.64
1774500	Astec	NTQ123	+3.3V @ 0-14A; +5V@2A-12.5A; +12V@0-1A; -12V@0-0.5A	70.0W	85-264@47-63	50	UL/CSA/VDE/CE	203.85	191.12

\* Primary Output

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxD)	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
210841	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	\$17.95	\$15.29	\$11.44
622539	Phihong	PSA-4034	+5.1V@5-3A; +15V@2-2A; -15V@0.5A	40.0W	90-264@47-63	5.0x3.0x1.2	4.5x2.6x0.16	50	—	—	UL/CSA/VDE/CE	24.95	21.21	15.95
1774180	Artesyn	NFS40-7628	+5.1V@3A; +12V@2A; -12V@0.35A	40.0W	85-264@47-440	—	—	50	—	—	UL/CSA/VDE/CE	67.49	61.33	56.22
673934	Martek	PVI-50-46BUB	+5V@6.5; +3.3@2.5; +12V@0.8; -12V@0.5	57.0W	100-240@50-60	8.1x3.2x1.5	—	—	—	—	UL/CUL/CSA/TUV/CE	15.95	13.95	11.49
226211	Phihong	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	29.95	25.46	19.09
692377	Autec	UPS65-1002	+5V@0.5-3.5A; +12V@0.1-4A	65.0W	90-260@47-63	6.0x3.5x1.5	4.8x3.2x0.16	50	2.0	0.5	UL/CSA/TUV	15.95	14.35	12.59

\* Primary Output

• This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

This product has a RoHS equivalent, manufacturer may vary.

Color Code Legend

New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

177

# 100 to 150W Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 100 to 150-Watt Open-Frame Power Supplies

Enclosed Power Supplies on pages 180-186.

- 100% full burn-in test



LPS-100

### 100-Watt LPS-100 Series: Single Output

- Auto-switch AC input
- Line regulation:  $\pm 0.5\%$
- Working temperature:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Load reg.:  $\pm 1.5\%$ , except 173463:  $\pm 0.5\%$
- Inrush current: 30A @ 120VAC
- Size: 8.74"L x 2.44" x 1.25"W
- Three-year warranty
- No minimum load required
- Voltage adjustment: 10%
- Weight: 0.8 lbs.

PERFORMANCE  
At Value Prices



LPS110

### 110-Watt LPS110 & LPQ-110 Series: Single & Quad Outputs

- Universal input
- Inrush current: 18A @ 115VAC; 36A @ 230VAC
- Efficiency: 70%
- Power failure and remote sense logic control
- Size: 7.0"L x 4.0"W x 1.8"H
- Overload, overvoltage protection
- 110W with 30CFM forced air
- Regulation:  $\pm 2\%$

NEW

### 120 Watt PSA-120 Series: Single Output

- Universal AC input
- Operating temp.:  $0^{\circ}\text{C}$  to  $50^{\circ}\text{C}$
- Efficiency: +5V-70%; +12V-75%; +24V-78%
- Inrush current: 30A@115VAC; 60A@240VAC
- Size: 5.0"L x 3.0"W x 1.3"H
- 30CFM forced air required
- Overload, short circuit protection



NEW



PPS-125

### 125-Watt PPS-125 Series: Single Output

- Universal AC input
- Working temp.:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Load regulation:  $\pm 1.0\%$
- Size: 5.0"L x 3.0"W x 1.4"H

PERFORMANCE  
At Value Prices

### 150-Watt LPQ-150 Series: Quad Output

- Universal input range
- Inrush current: 38A max.
- Overload, overvoltage protection
- 150W with 30CFM forced air
- Power failure, remote inhibit, remote sense logic control
- Size: 8.5"L x 4.25"W x 1.5"H
- Efficiency: 75%

NEW

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing	
			Voltage@Current (min-max)	Power				1	10
173472	Mean Well	LPS-100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	\$55.59	\$50.81
173463	Mean Well	LPS-100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	53.49	48.87
216710	Mean Well	LPS-100-48	+48V@0-2.1A	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	45.01
1773312	Astec	LPS114-1B	+15V@0-5.3A	110.0W	85-264@47-440	150	UL/CSA/VDE/CE/CB	179.89	163.49
1773321	Astec	LPS115	+24@0-3.3A	110.0W	85-264@47-440	240	UL/CSA/VDE/CE/CB	105.15	98.76
1773216	Astec	LPQ113	+5V@2A-9A; +12V@0-4.5A; -15V@0-0.7A $\pm 5\text{V}$ to 25V@0-2.5V	110.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	124.09	118.33
1586331	Phihong	PSA120-050-R	+5V@0-15A	75.0W	40-264@47-63	100	UL/CUL/TUV/CE	59.99	57.39
1586349	Phihong	PSA120-120-R	+12V@0-10A	120.0W	40-264@47-63	120	UL/CUL/TUV/CE	59.99	57.39
1586357	Phihong	PSA120-250-R	+24V@0-5A	120.0W	40-264@47-63	240	UL/CUL/TUV/CE	59.99	57.39
374089	Mean Well	PPS-125-12	+12V@0-10.5A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	93.99	79.84
301429	Mean Well	PPS-125-24	+24V@0-5.2A	124.8W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84
1773232	Astec	LPQ152	+5V@2A-15A; +12V@0.1A-6A; +12V@0.1A-2A; $\pm 5\text{V}$ to 25V@0-2.5A	150.0W		50	UL/CSA/VDE/CE/CB	196.45	177.70
1773241	Astec	LPQ153	+5V@2A-15A; +15V@0.1A-4.8A; -15V@0.1A-1.6A; $\pm 5\text{V}$ to 25V@0-2.5A	150.0W		50	UL/CSA/VDE/CE/CB	196.45	184.59
1773259	Astec	LPQ154	+5V@2A-15A; +12V@0.1A-6A; +24V@0.5A-3.5A; -12V@0.1A-2.0A	150.0W		50	UL/CSA/VDE/CE/CB	196.45	184.59

\* Primary Output    ♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

### Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

NEW

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing	
			Voltage@Current (min-max)	Power								1	10
220231	Artesyn	NFS110-7604P	+5.1V@8A; +15V@4A; -5V@0.5; -15V@0.5A	110.0W	85-264@47-440	—	—	50	—	—	UL/CSA/VDE/CE	\$102.79	\$94.79

\* Primary Output

Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

♻ RoHS compliant product    ♻ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    ♻ This product has a RoHS equivalent, manufacturer may vary.

# 150 to 350W Open-Frame Switching AC-to-DC Power Supplies

See page 253 for more  
Open Frame Power Supplies

## 125 to 350-Watt Open-Frame Power Supplies

Enclosed Power Supplies  
on pages 180-186.

- 100% full burn-in test
- Line regulation:  $\pm 0.5\%$
- Three-year warranty



LPP-150



LPS250/LPQ-250



USP-350

### 150-Watt LPP-150 Series: Single Output

- Voltage adjustment: 10%
- Load regulation: 213681, 375065 & 392771:  $\pm 1.0\%$ ; 213672, 216646 & 392789:  $\pm 0.5\%$
- Mating conn.: P/N 215950, pg 125
- Size: 8.74"L x 2.95"W x 1.61"H
- Auto-switch AC input

PERFORMANCE  
At Value Prices

### 200-Watt PPS-200 Series: Single Output

- High efficiency up to 90% (typical)
- Free air convection for 150W; 20.5 CFM forced air for 200W
- Short circuit, overload, overvoltage protection
- Mating connectors: P/N 104433, pg 125
- PWM control & regulated
- Size: 5.0"L x 3.0"W x 1.4"H
- Load regulation:  $\pm 1.0\%$

PERFORMANCE  
At Value Prices

### 250-Watt LPS-250 & LPQ-250 Series: Single & Quad Output

- Universal input
- In-rush current: 20A max.; cold start at 25°C
- Overload, overvoltage protection, thermal overload
- Power failure, remote on/off, DC, remote sense logic controls
- Efficiency: 75%
- With cover: 250W with 30CFM forced air
- Size: 10.3"L x 5.0"W x 2.0"H

NEW

### 225 & 350-Watt U Bracket Type USP-225 & USP-350 Series: Single Output

- Active AC surge current limiting
- Short circuit, overload, overvoltage, overtemperature protection
- Free air convection for 150W and forced air convection for 225W
- Mating connectors: P/N 104433 or 463435 (input), pg 125; P/N 364832 (output), pg 126
- Free air convection for 300W; 23.5 CFM forced air for 350W
- Load regulation:  $\pm 1.0\%$
- Size: 8.0"L x 4.0"W x 1.5"H
- Working temp.: -20°C to +65°C
- Size: 9.3"L x 4.0"W x 1.5"H
- Working temp.: -10°C to +65°C

PERFORMANCE  
At Value Prices

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

CE CB

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing	
			Voltage@Current (min-max)	Power				1	10
213681	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	\$68.45	\$64.60
375065	Mean Well	LPP-150-15	+15V@0-10.0A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60
213672	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	68.45	64.60
216646	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	74.59	70.41
668713	Mean Well	PPS-200-12	+12V@0-16.6A	199.2W	90-264@47-63	100	UL/CUL/TUV/CE	105.89	99.69
668721	Mean Well	PPS-200-15	+15V@0-13.3A	199.5W	90-264@47-63	100	UL/CUL/TUV/CE	158.95	149.65
668730	Mean Well	PPS-200-24	+24V@0-8.3A	199.2W	90-264@47-63	150	UL/CUL/TUV/CE	158.95	149.65
1776193	Astec	LPS254-(C)	+15V@0.5A-16.7A	250.5W	85-264@47-440	150	UL/CSA/VDE/CE/CB	277.45	265.20
1776206	Astec	LPS255-(CF)	+24V@0.32A-10.4A	249.6W	85-264@47-440	240	UL/CSA/VDE/CE/CB	295.89	276.95
1773486	Astec	LPS255-(C)	+24V@0.32A-10.4A	249.6W	85-264@47-440	240	UL/CSA/VDE/CE/CB	277.45	257.59
1776214	Astec	LPQ252-(CF)	+5V@3A-35A; +12V@0-10A; -12V@0-6A; $\pm 5V$ to -25V@0-6A	250.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	357.49	321.10
1773291	Astec	LPQ252-(C)	+5V@3A-35A; +12V@0-10A; -12V@0-6A; $\pm 5V$ to -25V@0-6A	250.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	303.35	286.53
1776222	Astec	LPQ253-(CF)	+5V@3A-35A; +15V@0-10A; -15V@0-6A; $\pm 5V$ to -25V@0-6A	250.0W	85-264@47-440	50	UL/CSA/VDE/CE/CB	439.99	419.99
694452	Mean Well	USP-225-3.3	+3.3V@0-40A	132.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	129.69	123.75
694461	Mean Well	USP-225-5	+5V@0-40A	200.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	121.25
694479	Mean Well	USP-225-12	+12V@0-18.7A	224.4W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	121.25
694487	Mean Well	USP-225-15	+15V@0-15A	225.0W	90-264@47-63	100	UL/CUL/TUV/CE/CB	126.99	121.25
694495	Mean Well	USP-225-24	+24V@0-9.4A	225.6W	90-264@47-63	150	UL/CUL/TUV/CE/CB	126.99	121.25
694508	Mean Well	USP-225-48	+48V@0-4.7A	225.6W	90-264@47-63	250	UL/CUL/TUV/CE/CB	129.69	123.75
694399	Mean Well	USP-350-3.3	+3.3V@0-70A	231.0W	90-264@47-63	80	UL/CUL/TUV/CE	203.59	197.49
694401	Mean Well	USP-350-5	+5V@0-70A	350.0W	90-264@47-63	80	UL/CUL/TUV/CE	203.59	197.49
694410	Mean Well	USP-350-12	+12V@0-29.2A	350.4W	90-264@47-63	100	UL/CUL/TUV/CE	203.59	197.49
694428	Mean Well	USP-350-15	+15V@0-23.4A	351.0W	90-264@47-63	100	UL/CUL/TUV/CE	203.59	197.49
694436	Mean Well	USP-350-24	+24V@0-14.6A	350.4W	90-264@47-63	150	UL/CUL/TUV/CE	203.59	197.49

\* Primary Output

◆ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.



[www.Jameco.com](http://www.Jameco.com)

More Power products available online.  
Visit our website today!

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Order 24/7 Toll Free 1-800-831-4242

179

Color Code Legend  
New Sale Lower\$ QtySave

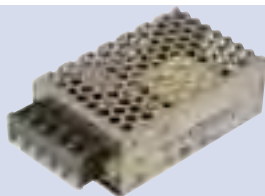
# 15 to 45-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 25-Watt Enclosed

### RS-25 Series: Single Output

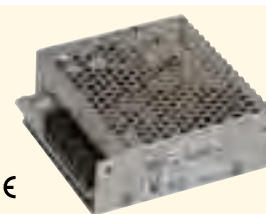
- New smaller design: 3.0" x 2.0" x 1.1"
- 3.66 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit, overload, overvoltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- Mating connector: 103588, pg 145
- 105°C output capacitor
- High operating temperature up to 70°C
- Three-year warranty



## 25-Watt Enclosed

### S-25 Series: Single Output

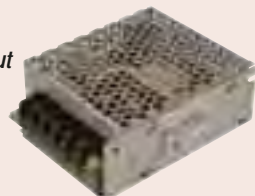
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- 1.2 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Mating connector: 103588, pg 145
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Working temp.: -10°C to +60°C
- Two-year warranty



## 35-Watt Enclosed

### RS-35 & RD-35 Series: Single & Dual Output

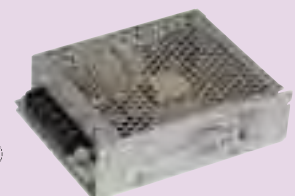
- New smaller design: 3.9" x 3.2" x 1.4"
- 2 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit, overload, overvoltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- Mating connector: 103588, pg 144
- 105°C output capacitors
- High operating temperature up to 70°C
- Three-year warranty



## 40-Watt Enclosed

### S-40 & T-40 Series: Single & Triple Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- 1.6 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Mating connector: P/N 103588, pg 144
- Working temperature: -10°C to +60°C
- Mounting hardware: use P/Ns 222122, 222156 & 222173 (see web)
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



For PC Power Supplies, see page 210.

Open-Frame Power Supplies on pages 175-179.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693193	Mean Well	RS-25-3.3	+3.3V@0-6A	19.8W	80	2	0.5	UL/CUL/TUV/CE/CB	\$29.09	\$25.23	\$23.28
323282	Mean Well	RS-25-5	+5V@0-5A	25.0W	80	1	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
323300	Mean Well	RS-25-12	+12V@0-2.1A	25.2W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
323302	Mean Well	RS-25-15	+15V@0-1.7A	25.5W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323311	Mean Well	RS-25-24	+24V@0-1.1A	26.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
693206	Mean Well	RS-25-48	+48V@0-0.57A	27.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	29.09	25.23	23.28
123247	Mean Well	S-25-5	+5V@0-5A	25.0W	50	1	0.5	UL/TUV/CE	41.95	33.71	30.35
123255	Mean Well	S-25-12	+12V@0-2.1A	25.2W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
123263	Mean Well	S-25-15	+15V@0-1.7A	25.5W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
123272	Mean Well	S-25-24	+24V@0-1.1A	26.4W	100	0.5	0.5	UL/TUV/CE	41.95	33.71	30.35
639214	Mean Well	RS-35-3.3	+3.3V@0-7A	23.1W	80	2	0.5	UL/CUL/TUV/CE/CB	36.15	31.36	29.79
323329	Mean Well	RS-35-5	+5V@0-7A	35.0W	80	1	0.5	UL/CUL/TUV/CE/CB	37.25	31.36	29.79
323337	Mean Well	RS-35-12	+12V@0-3A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	36.89	30.99	28.13
323345	Mean Well	RS-35-15	+15V@0-2.4A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	36.89	30.99	28.13
323353	Mean Well	RS-35-24	+24V@0-1.5A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	36.99	30.99	28.13
693222	Mean Well	RS-35-48	+48V@0-0.8A	38.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	36.99	30.99	28.13
323362	Mean Well	RD-35A	+5V@0.3-4A; +12V@0.2-1A	32.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	35.28	33.53
323380	Mean Well	RD-35B	+5V@0.3-4A; +24V@0.2-1.3A	51.2W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	35.28	33.52
1765195	Hengfu	HF40W-SL-5	+5V@0-0.8A	40.0W	80	0.5	0.5	CUL/CE	43.15	36.99	33.32
1765208	Hengfu	HF40W-SL-12	+12V@0-3.5A	42.0W	100	0.5	0.5	CUL/CE	43.15	36.99	33.32
1765216	Hengfu	HF40W-SL-15	+15V@0-2.8A	42.0W	100	0.5	0.5	CUL/CE	43.15	36.99	33.32
1765224	Hengfu	HF40W-SL-24	+24V@0-1.8A	43.2W	100	0.5	0.5	CUL/CE	43.15	36.99	33.32
123290	Mean Well	S-40-5	+5V@0-8A	40.0W	75	1	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
123298	Mean Well	S-40-12	+12V@0-3.5A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
202140	Mean Well	S-40-15	+15V@0-2.8A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
123319	Mean Well	S-40-24	+24V@0-1.8A	43.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	46.75	40.15	36.09
201989	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	100	0.5	0.5	CSA/CE	54.95	46.71	35.02
201997	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90
202009	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	50.45	42.52	38.28

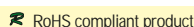
Blue Part No. = Limited Quantity Available \* Primary Output

Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
689848	Potrans	1M150C05-1M	+5V@0-3.0A	15.0W	100	0.5	1.0	UL/CUL/TUV/CE	\$19.95	\$17.95	\$15.25
692422	Volgen	SX15U-05S	+5V@3.0A	15.0W	100	—	—	UL/CSA	19.95	17.95	16.15
689805	Potrans	1M041C05-1M	+5V@0-8.0A	40.0W	75	—	—	UL/CUL/TUV/CE	29.95	26.95	22.95
689830	Potrans	1M041C12-1M	+12V@0-3.5A	42.0W	100	—	—	UL/CUL/TUV/CE	38.95	35.00	29.95
689792	Potrans	1M041C24-1M	+24V@0-1.8A	43.0W	100	—	—	UL/CUL/TUV/CE	29.95	26.95	22.95

\* Primary Output



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

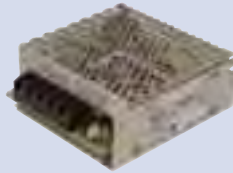
Details on page 1.

# 50 to 75-Watt Enclosed Switching AC-to-DC Power Supplies

## 50-Watt Enclosed

**RS-50, RD-50, RT-50, & RQ-50 Series:**  
Single, Dual, Triple & Quad Output

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 60-Watt Enclosed

**S-60, D-60, T-60 & Q-60 Series:**  
Single, Dual, Triple & Quad Outputs

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 65-Watt Enclosed

**RD-65, RT-65 & RQ-65 Series:**  
Dual, Triple & Quad Outputs

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 75-Watt Enclosed with Power Factor Correction







































**RS-75 Series: Single Output**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



For PC Power Supplies, see page 210.

Open-Frame Power Supplies  
on pages 175-179.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Load Noise (mV p-p)*	Line Reg. (±%)*	Reg. (±%)*	Certification	Pricing			
			Voltage@Current (min-max)						Power	1	10	25
693231	Mean Well 	RS-50-3.3	+3.3V@0-10A		33.0W	80	2	0.5	UL/CUL/TUV/CE/CB	\$40.19	\$34.30	\$32.59
323388	Mean Well 	RS-50-5	+5V@0-10A		50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323396	Mean Well 	RS-50-12	+12V@0-4.2A		50.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323409	Mean Well 	RS-50-15	+15V@0-3.4A		51.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323417	Mean Well 	RS-50-24	+24V@0-2.2A		52.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
693249	Mean Well 	RS-50-48	+48V@0-1.1A		52.8W	200	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323425	Mean Well 	RD-50A	+5V@0.3-6A; +12V@0.3-3A		54.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.55	37.62	35.74
323433	Mean Well 	RD-50B	+5V@0.3-6A; +24V@0.2-2A		53.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	40.19	34.30	32.59
323442	Mean Well 	RT-50A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0.5-5A		46.5W	80	1	0.5	UL/CUL/TUV/CE/CB	45.09	39.20	37.24
323460	Mean Well 	RT-50B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0.1-1A		50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.55	39.60	37.62
323468	Mean Well 	RT-50C	+5V@0-5A; +15V@0.2-2A; -15V@0.1-1A		50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323476	Mean Well 	RT-50D	+5V@0.5-5A; +12V0.1-1A; +24V@0.2-1.5A		51.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.09	39.20	37.24
323492	Mean Well 	RQ-50D	+5V@0.5-6A; +12V@0.2-1.5A; +24V@0.1-1A; -12V@0-1A		53.4W	80	0.5	0.5	UL/CUL/TUV/CE/CB	45.09	40.18	37.24
1765232	Hengfu 	HF60W-SL-5	+5V@0-12A	<div>NEW</div> <div>See <a href="http://www.Jameco.com">www.Jameco.com</a> for specifications.</div>	60.0W	80	0.5	0.5	UL/CUL/CE	61.99	58.49	52.65
1765241	Hengfu 	HF60W-SL-12	+12V@0-5A		60.0W	100	0.5	0.5	UL/CUL/CE	52.49	40.37	36.29
1765259	Hengfu 	HF60W-SL-15	+15V@0-4A		60.0W	120	0.5	0.5	UL/CUL/CE	61.99	58.49	52.65
1765267	Hengfu 	HF60W-SL-24	+24V@0-2.5A		60.0W	150	0.5	0.5	UL/CUL/CE	61.99	58.49	52.65
123327	Mean Well 	S-60-5	+5V@0-12A		60.0W	120	1	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123335	Mean Well 	S-60-12	+12V@0-5A		60.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123343	Mean Well 	S-60-15	+15V@0-4A		60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123352	Mean Well 	S-60-24	+24V@0-2.5A		60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	58.29	44.82	40.28
123458	Mean Well 	D-60A	+5V@0.3-4A; +12V@0.2-3A		56.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	58.25	46.75	42.08
123466	Mean Well 	D-60B	+5V@0.3-3A; +24V@0.2-1.8A		58.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	58.25	46.75	42.05
123482	Mean Well 	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0-0.5A		61.0W	100	1	0.5	UL/CUL/TUV/CE/CB	61.49	49.82	44.84
123491	Mean Well 	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A		62.5W	100	1	0.5	UL/CUL/TUV/CE/CB	61.49	48.82	44.84
147046	Mean Well 	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A		60.0W	100	0.5	0.5	UL/CUL/CE/CB	68.59	57.09	51.39
323505	Mean Well 	RD-65A	+5V@0.3-8A; +12V@0.2-4A		66.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323513	Mean Well 	RD-65B	+5V@0.3-8A; +24V@0.2-3A		68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	47.55	40.59	38.56
323540	Mean Well 	RT-65B	+5V@0.5-8A; +12V@0.2-3.5A; -12V@0-1A		64.6W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323548	Mean Well 	RT-65C	+5V@0.5-8A; +15V@0.2-3A; -15V@0-1A		65.5W	80	1	0.5	UL/CUL/TUV/CE/CB	48.05	40.35	38.33
323564	Mean Well 	RQ-65B	+5V@0.5-8A; +12V@0.2-3A; -5V@0-1A; -12V@0-1A		62.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323572	Mean Well 	RQ-65D	+5V@0.5-8A; +12V@0.2-3A; +24V@0.1-1.5A; -12V@0-1A		68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.95	41.26	39.24
693257	Mean Well 	RS-75-3.3	+3.3V@0-15A		49.5W	80	2	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31
323581	Mean Well 	RS-75-5	+5V@0-12A		60.0W	80	1	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31
323599	Mean Well 	RS-75-12	+12V@0-6A		72.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	44.65	37.83	36.69
323602	Mean Well 	RS-75-15	+15V@0-5A		75.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31
323620	Mean Well 	RS-75-24	+24V@0-3.2A		76.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	44.65	37.83	36.69
693265	Mean Well 	RS-75-48	+48V@0-1.6A		76.8W	200	0.5	0.5	UL/CUL/TUV/CE/CB	45.09	38.22	36.31

\* Primary Output

Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

**SALE**

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p) *	Load Reg. (±%) *	Line Reg. (±%) *	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
689784	Potrans	1M051C05-0M	+5V@10.0A	50.0W	—	—	—	UL/CUL	\$29.95	\$26.95	\$22.89
689768	Potrans	FS-06005-0M	+5V@0-12.0A	60.0W	120	—	—	UL/CUL/CE	34.95	29.95	24.95
689821	Potrans	1M051C12-1M	+12V@0-4.2A	50.0W	100	—	—	UL/CUL/TUV/CE	29.95	26.95	22.95
689813	Potrans	1M061C05-0M	+12V@0-5.0A	60.0W	120	—	—	UL/CUL/TUV/CE	47.95	43.00	37.95

\* Primary Output

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

181

# 75 to 100-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 75 & 85-Watt Enclosed with Power Factor Correction

**SP-75 Series: Single Output**

**RD-85 & RT-85 Series: Dual & Triple Output**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

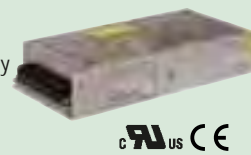


CE CB

## 100-Watt Enclosed

**HF100W-SF Series: Single Output**

- AC input switch selectable
- Two-year warranty
- Overcurrent, overvoltage, short circuit protection
- Size: 7.8"L x 3.9"W x 1.5"H
- See [www.Jameco.com](http://www.Jameco.com) for specifications



CE

## 100-Watt Enclosed w/ PFC

**CLG-100 Series: Single Output**

- Universal AC input/full range
- Three-year warranty
- Safety standard UL1310 Class 2, IP67
- See [www.Jameco.com](http://www.Jameco.com) for specifications



CE

## 100-Watt Enclosed

**S-100F Series: Single Output**

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

CE CB

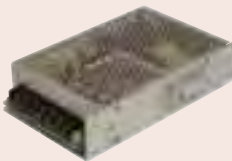


## 100-Watt Enclosed

**RS-100 Series: Single Output**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

CE CB

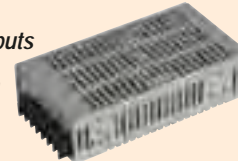


## 100-Watt Enclosed w/ PFC

**SP-100 & TP-100 Series: Single & Triple Outputs**

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

CE CB



For PC Power Supplies, see page 210.

Open-Frame Power Supplies on pages 175-179.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693370	Mean Well	SP-75-3.3	+3.3V@0-15.0A	49.5W	80	1	0.5	UL/CUL/TUV/CE/CB	\$78.45	\$74.48	\$71.49
194830	Mean Well	SP-75-5	+5V@0-15A	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	71.94	64.76	58.28
194838	Mean Well	SP-75-12	+12V@0-6.3A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	83.94	73.26	64.67
693396	Mean Well	SP-75-13.5	+13.5V@0-5.6A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
194846	Mean Well	SP-75-15	+15V@0-5A	75.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	83.94	73.26	64.67
194854	Mean Well	SP-75-24	+24V@0-3.2A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	83.94	73.26	64.67
693409	Mean Well	SP-75-27	+27V@0-2.8A	75.6W	100	0.5	0.5	UL/CUL/TUV/CE/CB	78.45	74.48	71.49
323628	Mean Well	RD-85A	+5V@2-10A; +12V@0.3-5A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.65	56.84	54.00
323661	Mean Well	RT-85C	+5V@2-10A; +15V@0.3-4A; -15V@0-1A	87.5W	80	1	0.5	UL/CUL/TUV/CE/CB	72.55	61.74	58.65
1585805	Mean Well	CLG-100-12	+12V@0-5A	60.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585856	Mean Well	CLG-100-15	+15V@0-5A	75.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585864	Mean Well	CLG-100-20	+20V@0-4.8A	96.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585872	Mean Well	CLG-100-24	+24V@0-4A	96.0W	150	2	1	UL/CUL/TUV/CE	136.99	111.17	91.17
1585733	Mean Well	CLG-100-27	+27V@0-3.55A	95.85W	150	2	1	UL/CUL/TUV/CE	127.50	111.17	91.17
1585750	Mean Well	CLG-100-36	+36V@0-2.65A	95.4W	150	2	1	UL/CUL/TUV/CE	127.50	111.17	91.17
1585768	Mean Well	CLG-100-48	+48V@0-2A	96.0W	200	2	1	UL/TUV/CE	127.50	111.17	91.17
693273	Mean Well	RS-100-3.3	+3.3V@0-20.0A	66.0W	80	2	0.5	UL/CUL/TUV/CE/CB	62.75	53.90	51.21
323716	Mean Well	RS-100-12	+12V@0-8.5A	102.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	62.09	53.35	48.50
323724	Mean Well	RS-100-15	+15V@0-7A	105.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323732	Mean Well	RS-100-24	+24V@0-4.5A	108.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	62.75	53.90	51.21
1765275	Hengfeng	HF100W-SF-5	+5V@0-20A	100.0W	100	0.5	0.5	UL/CUL/CE	64.15	47.80	42.99
1765283	Hengfeng	HF100W-SF-7.5	+7.5V@0-13.5A	101.2W	100	0.5	0.5	UL/CUL/CE	64.15	47.80	42.99
1765291	Hengfeng	HF100W-SF-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/CE	64.15	47.80	42.99
1765304	Hengfeng	HF100W-SF-15	+15V@0-6.7A	100.5W	100	0.5	0.5	UL/CUL/CE	64.15	47.80	42.99
1765312	Hengfeng	HF100W-SF-24	+24V@0-4.5A	108.0W	100	0.5	0.5	UL/CUL/CE	64.15	47.80	42.99
1765321	Hengfeng	HF100W-SF-48	+48V@0-2.2A	105.6W	150	0.5	0.5	UL/CUL/CE	64.15	47.80	42.99
201962	Mean Well	S-100F-5	+5V@0-20A	100.0W	100	1	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
374919	Mean Well	S-100F-7.5	+7.5V@0-13.5A	101.0W	125	0.5	0.5	UL/CUL/TUV/CE/CB	66.95	49.90	44.90
123386	Mean Well	S-100F-12	+12V@0-8.5A	102.0W	125	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
201971	Mean Well	S-100F-24	+24V@0-4.5A	108.0W	150	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
216793	Mean Well	S-100F-48	+48V@0-2.2A	105.6W	150	0.5	0.5	UL/TUV/CE/CB	70.29	52.39	47.14
693441	Mean Well	SP-100-3.3	+3.3V@0-20.0A	66.0W	100	1	0.5	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
194791	Mean Well	SP-100-5	+5V@0-20A	100.0W	100	1	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
693450	Mean Well	SP-100-7.5	+7.5V@13.5A	101.3W	100	1	0.5	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
194803	Mean Well	SP-100-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	89.25	84.39	81.85
693476	Mean Well	SP-100-13.5	+13.5V@0-7.5A	101.3W	100	0.5	0.5	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
194812	Mean Well	SP-100-24	+24V@0-4.2A	100.8W	150	0.5	0.5	UL/CUL/TUV/CE/CB	92.39	78.53	58.90
693484	Mean Well	SP-100-48	+48V@0-2.1A	100.8W	250	3	1	UL/CUL/TUV/CE/CB	90.19	85.26	81.85
213778	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	100	3	1	UL/CUL/TUV/CE/CB	111.15	94.08	70.56

\* Primary Output    Blue Part No. = Limited Quantity Available

More Power Supplies at [www.Jameco.com/Prod/PowerSupplies](http://www.Jameco.com/Prod/PowerSupplies)

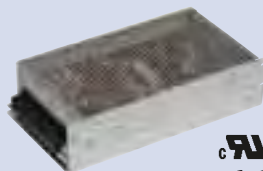
RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# 100 to 150W Enclosed Switching AC-to-DC Power Supplies

## 120-Watt Enclosed

### D-120 & Q-120 Series: Dual & Quad Outputs

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 125 & 150-Watt Enclosed

- 100% full-load burn-in
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

### RD-125, RT-125 Series: Dual & Triple Outputs

### RS-150 Series: Single Output

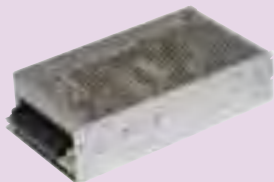
- New smaller design: 7.8" x 3.9" x 1.5"



## 150-Watt Enclosed

### S-150 Series: Single Output

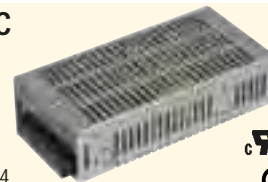
- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 150-Watt Enclosed w/ PFC

### SP-150, TP-150 & QP-150 Series: Single, Triple & Quad Outputs

- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- Working temperature: -10°C to +60°C
- Mating connector: P/N 103588, pg 144
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



For PC Power Supplies, see page 210.

Open-Frame Power Supplies on pages 175-179.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
132410	Mean Well	D-120A	+5V@2-12A; +12V@0.5-5A	120.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	\$79.75	\$66.45	\$58.93
132397	Mean Well	D-120B	+5V@2-6A; +24V@0.4-4A	126.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	79.75	66.45	58.93
132389	Mean Well	Q-120B	+5V@2-11A; -5V@0.2-1A; +12V@0.5-4A; -12V@0.2-1A	120.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	81.55	64.99	57.99
132371	Mean Well	Q-120D	+5V@2-8A; +24V@0.2-2A; +12V@0.2-2A; -12V@0.2-1A	124.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	81.55	64.99	57.99
323741	Mean Well	RD-125A	+5V@2-15A; +12V@0.5-10A	130.9W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323759	Mean Well	RD-125B	+5V@2-10A; +24V@0.4-5A	133.4W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323775	Mean Well	RT-125B	+5V@2-15A; +12V@0.5-6A; -12V@0.1-1A	132.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323783	Mean Well	RT-125C	+5V@2-15A; +15V@0.5-6A; -15V@0.1-1A	132.5W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323792	Mean Well	RT-125D	+5V@2-15A; +12V@0.1-2A; +24V@0.4-4A	136.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
693329	Mean Well	RS-150-3.3	+3.3V@0-30.0A	99.0W	80	2	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323839	Mean Well	RS-150-12	+12V@0-12.5A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323847	Mean Well	RS-150-15	+15V@0-10A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323855	Mean Well	RS-150-24	+24V@0-6.5A	156.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	53.35
323863	Mean Well	RS-150-48	+48V@0-3.3A	158.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	65.99	57.23	55.49
1765355	Hengfu	HF150W-SF-7.5	+7.5V@0-20A	150.0W	120	0.5	0.5	UL/CUL/CE	59.99	55.99	54.29
1765363	Hengfu	HF150W-SF-9	+9V@0-16.7A	150.3W	120	0.5	0.5	UL/CUL/CE	59.99	55.99	54.29
1765339	Hengfu	HF150W-SF-12	+12V@0-12.5A	150.0W	120	0.5	0.5	UL/CUL/CE	59.99	55.99	54.29
1765371	Hengfu	HF150W-SF-24	+24V@0-6.5A	156.0W	150	0.5	0.5	UL/CUL/CE	59.99	55.99	54.29
1765380	Hengfu	HF150W-SF-27	+27V@0-5.6A	151.2W	150	0.5	0.5	UL/CUL/CE	59.99	55.99	54.29
123394	Mean Well	S-150-5	+5V@0-30A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123415	Mean Well	S-150-7.5	+7.5V@0-20A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
693353	Mean Well	S-150-9	+9V@0-16.7A	150.3W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123423	Mean Well	S-150-12	+12V@0-12.5A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
202025	Mean Well	S-150-13.5	+13.5V@0-11.2A	151.2W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123432	Mean Well	S-150-15	+15V@0-10A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
123450	Mean Well	S-150-24	+24V@0-6.5A	156.0W	240	0.2	0.2	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
202033	Mean Well	S-150-27	+27V@0-5.6A	151.2W	240	0.2	0.2	UL/CUL/TUV/CE/CB	69.79	59.33	44.49
167346	Mean Well	S-150-48	+48V@0-3.2A	153.6W	240	0.2	0.2	UL/CUL/TUV/CE/CB	68.59	64.04	62.05
201903	Mean Well	SP-150-3.3	+3.3V@0-30A	99.0W	100	1	0.5	UL/CUL/TUV/CE/CB	81.15	68.89	67.51
201911	Mean Well	SP-150-5	+5V@0-30A	150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	100.95	85.81	64.36
693505	Mean Well	SP-150-7.5	+7.5V@0-20.0A	150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	92.19
173421	Mean Well	SP-150-12	+12V@0-12.5A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
394193	Mean Well	SP-150-13.5	+13.5V@0-11.2A	151.2W	100	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	92.19
173412	Mean Well	SP-150-15	+15V@0-10A	150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	91.21	85.70
173404	Mean Well	SP-150-24	+24V@0-6.3A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	101.99	97.02	94.12
693513	Mean Well	SP-150-27	+27V@0-5.6A	151.2W	150	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
201930	Mean Well	SP-150-48	+48V@0-3.2A	153.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	100.95	96.04	94.12
213832	Mean Well	TP-150C	+5V@2-15A; +15V@0.4-4.5A; -15V@0-0.6A	151.5W	100	3	1	UL/CUL/TUV/CE/CB	107.25	96.47	86.83
213648	Mean Well	QP-150F	+5V@3-10A; +15V@0-3A; +24V@0.4-2A; -15V@0-0.6A	152.0W	120	2	1	UL/CUL/TUV/CE/CB	151.49	143.55	136.37

\* Blue Part No. = Limited Quantity Available

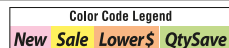
## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323871	Volgen	SP100U-24S	+24V@4.4A	105.6W	150	0.4	0.2	—	\$29.75	\$25.29	\$21.50
1773224	Astec	LPQ142-(CF)	+5V@0A-12A; +12V@0A-5A; -12V@0A-1A; ±3.3V to 25V@0.5A-1.5A	145.0W	50	2.0	2.0	UL/CSA/DE/CE/CB	370.29	336.60	308.57

\* Primary Output

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



Order 24/7 Toll Free 1-800-831-4242

# 200 to 320-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 200-Watt Enclosed with Power Factor Correction

### SP-200 Series: Single Output

- 100% full-load burn-in
- Built-in fan cooling
- Input: 85-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: P/N 103588, pg 144
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 200-Watt Enclosed with Power Factor Correction

### QP-200 Series: Quad Output

- 100% full-load burn-in
- Input: 85-264VAC, 120-370VDC
- 2.6 watts/in<sup>3</sup> maximum
- Built-in fan cooling
- Mating connector: P/N 103588, pg 144
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 240-Watt Enclosed

### S-240 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- 3.4 watts/in<sup>3</sup> maximum
- Auto cooling fan
- Voltage adjustment: 10%
- Mating connector: P/N 103588, pg 144
- Input: 88-132/176-264VAC @ 47-63Hz
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty

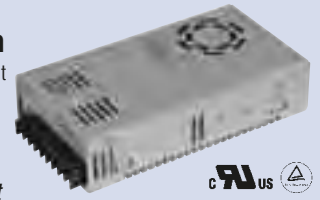


## 300 & 320-Watt Enclosed with Power Factor Correction

- 100% full-load burn-in
- Universal AC input
- No minimum load required
- Auto cooling fan
- Voltage adj.: 10%
- Three-year warranty

### SP-300 & SP-320 Series: Single Output

- Input: 88-264VAC @ 47-63Hz, 120-370VDC
- Working temperature: SP-300: -10°C to +60°C; SP-320: -20°C to 65°C



For PC Power Supplies, see page 210.

Open-Frame Power Supplies  
on pages 175-179.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
693521	Mean Well	SP-200-3.3	+3.3V@0-40.0A	132.0W	100	1	0.5	UL/CUL/TUV/CE/CB	\$113.69	\$106.82	\$102.55
202042	Mean Well	SP-200-5	+5V@0-40A	200.0W	100	1	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	102.55
693530	Mean Well	SP-200-7.5	+7.5V@0-26.7A	202.2W	100	1	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
194774	Mean Well	SP-200-12	+12V@0-16.7A	200.4W	100	0.5	0.5	UL/CUL/TUV/CE/CB	112.49	105.73	102.55
212410	Mean Well	SP-200-13.5	+13.5V@0-14.9A	201.1W	100	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202060	Mean Well	SP-200-15	+15V@0-13.4A	201.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	114.85	107.91	102.51
194782	Mean Well	SP-200-24	+24V@0-8.4A	201.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
693548	Mean Well	SP-200-27	+27V@0-7.5A	202.5W	150	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
202068	Mean Well	SP-200-48	+48V@0-4.2A	201.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	113.69	106.82	102.55
213752	Mean Well	QP-200D	+5V@3-15A; +12V@0-4A; +24V@0.4-3A; -12V@0-0.7A	204.9W	100	2	1	UL/CUL/TUV/CE/CB	161.69	152.88	145.24
693556	Mean Well	S-240-7.5	+7.5V@0-30.0A	225.0W	200	1	0.5	UL/CUL/TUV/CE/CB	106.85	100.94	98.92
137649	Mean Well	S-240-12	+12V@0-18A	216.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	106.85	100.94	98.92
202075	Mean Well	S-240-15	+15V@0-15A	225.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	107.35	91.08	80.49
137657	Mean Well	S-240-24	+24V@0-10A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
392834	Mean Well	S-240-30	+30V@0-8A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
167338	Mean Well	S-240-48	+48V@0-5A	240.0W	240	1	1	UL/CUL/TUV/CE/CB	106.25	90.16	79.67
374185	Mean Well	PSP-300-24	+24V@0-12.5A	300.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	191.15	180.94	171.90
161980	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	300.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
244735	Mean Well	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	275.0W	150	1	0.5	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
394215	Mean Well	SP-320-7.5	+7.5V@0-40A	300.0W	150	1	0.5	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244743	Mean Well	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693599	Mean Well	SP-320-13.5	+13.5V@0-22.0A	297.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693610	Mean Well	SP-320-15	+15V@0-20.0A	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244752	Mean Well	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	312.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
693628	Mean Well	SP-320-27	+27V@0-11.7A	315.9W	200	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07
244770	Mean Well	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	321.6W	240	0.5	0.2	UL/CUL/TUV/CE/CB	152.89	132.30	119.07

\* Primary Output

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

**SALE**

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
1585549	Potrans	FS-15024-IM	24@0-6.5A	156.0W	240	—	—	UL/CUL/CE	\$44.95	\$39.95	\$34.95
1585557	Potrans	IM201C12-IM-02	12V@0-16.6A	200.0W	120	—	—	UL/CUL/TUV/CE	69.95	62.95	51.95
689750	Potrans	FS-20024-1M	24V@0-8.3A	200.0W	150	—	—	UL/CSA/CE/TUV	69.95	62.95	49.95
689776	Potrans	1M321C48-0M	48@0-6.5A	312.0W	240	—	—	UL/CUL	89.95	79.95	69.95
1585565	Potrans	FS-32024-IM	24V@0-12.5A	320.0W	150	—	—	UL/CUL/CE	99.95	89.95	75.95

\* Primary Output

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# 320 to 600-Watt Enclosed Switching AC-to-DC Power Supplies

## 320-Watt Enclosed

### S-320 Series: Single Output

- 100% full-load burn-in
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

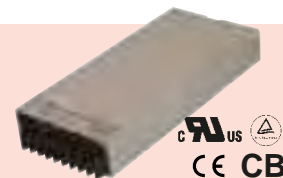


## 480-Watt Enclosed

### with Power Factor Correction

#### SP-480 Series: Single Output

- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 500-Watt Enclosed with Power Factor Correction

### SP-500 Series: Single Output

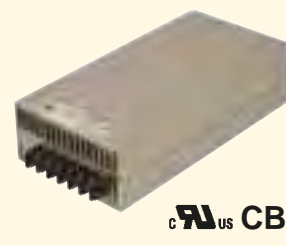
- 100% full-load burn-in
- Input: 88-264VAC, 120-370VDC
- 3.6 watts/in<sup>3</sup> maximum
- Remote control
- Auto cooling fan
- Voltage adjustment: 10%
- Input: 100-240VAC @ 50-60Hz
- Mating connector: P/N 103588 pg 144
- Working temperature: -10°C to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 600-Watt Enclosed

### SE-600 Series: Single Output

- AC input range switch selectable
- AC input active surge current limiting
- Inrush current: 30A @ 115VAC
- Leakage current: <2mA @ 240VAC
- Short circuit, overload, overvoltage, overtemperature protection
- Working temperature: -20°C to +60°C
- Size: 9.7"L x 5.0"W x 2.5"H
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



## 600-Watt Enclosed with Power Factor Correction

### PSP-600 Series: Single Output

- Built-in active PFC function
- Forced air cooling by built-in DC fan
- Current sharing up to 2400W (3 + 1)
- Built-in remote ON-OFF control, and remote sense function
- Short circuit, overload, overvoltage, overtemperature protection
- Input: 88-264VAC @ 47-64Hz/124-370VDC
- Mating connector: P/N 103588 or 302877, pg 142
- Working temperature: -20°C to +50°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Three-year warranty



## 600-Watt Enclosed with Current Sharing

### SCN-600 Series: Single Output

- 100% full-load burn-in
- Auto cooling fan
- Voltage adjustment: 5%
- 3.7 watts/in<sup>3</sup> maximum
- Universal AC input: 90-130/180-260VAC @ 47-63Hz
- Mating connector: P/N 103588, pg 144
- Working temperature: -10°C to +65°C; (+50°C @ 50% load)
- Mounting hardware: use P/Ns 222156 & 222173
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Two-year warranty



PERFORMANCE  
At Value Prices

For PC Power Supplies, see page 210.

Open-Frame Power Supplies  
on pages 175-179.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
216776	Mean Well	S-320-5	+5V@0-50A	250.0W	150	1	0.5	UL/CUL	\$120.59	\$116.97	\$113.47
207212	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	150	0.5	0.5	UL/CUL	129.69	115.74	109.95
207204	Mean Well	S-320-12	+12V@0-25A	300.0W	150	0.5	0.5	UL/CUL	120.59	116.97	113.47
693572	Mean Well	S-320-13.5	+13.5V@0-22.0A	297.0W	150	0.5	0.5	UL/CUL	120.59	116.97	113.47
374993	Mean Well	S-320-15	+15V@0-20A	300.0W	150	0.5	0.5	UL/CUL	120.59	102.50	76.88
196657	Mean Well	S-320-24	+24V@0-12.5A	300.0W	150	0.5	0.5	UL/CUL	129.69	122.76	110.48
693581	Mean Well	S-320-27	+27V@0-11.0A	297.0W	200	0.5	0.5	UL/CUL	120.59	116.97	113.47
207191	Mean Well	S-320-48	+48V@0-6.5A	312.0W	240	0.5	0.5	UL/CUL	120.59	116.97	113.47
693636	Mean Well	SP-480-3.3	+3.3V@0-85.0A	280.5W	80	1	0.5	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
693644	Mean Well	SP-480-5	+5V@0-85.0A	425.0W	80	1	0.5	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
301373	Mean Well	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	480.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
693652	Mean Well	SP-480-15	+15V@0-35.0A	480.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	245.99	214.62	193.16
301322	Mean Well	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	480.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301402	Mean Well	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	480.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	248.49	216.79	199.95
190693	Mean Well	SP-500-12	+12V@0-40A at 230VAC; 0-34A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
147054	Mean Well	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
190706	Mean Well	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	486.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	279.95	241.99	217.84
161796	Mean Well	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	480.0W	300	0.5	0.5	UL/CUL/TUV/CE/CB	287.45	248.52	223.68
374002	Mean Well	SE-600-05	+5V@0-100A	500.0W	150	2	0.5	UL/CUL	173.95	147.86	110.90
291522	Mean Well	SE-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295902	Mean Well	SE-600-24	+24V@0-25A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295911	Mean Well	SE-600-27	+27V@0-22.2A	599.4W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295929	Mean Well	SE-600-48	+48V@0-12.5A	600.0W	200	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
374214	Mean Well	PSP-600-12	+12V@0-50A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	239.99	229.43	217.97
374222	Mean Well	PSP-600-15	+15V@0-40A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374231	Mean Well	PSP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374257	Mean Well	PSP-600-27	+27V@0-22.2A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.99	238.99	226.99
374249	Mean Well	PSP-600-48	+48V@0-12.5A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	201.35	192.46	182.86
220249	Mean Well	SCN-600-05	+5V@0-100A	500.0W	100	2	0.5	UL/CUL/CB	292.99	276.99	269.99
220257	Mean Well	SCN-600-12	+12V@0-50A	600.0W	120	1	0.5	UL/CUL/CB	293.05	277.20	249.48
220265	Mean Well	SCN-600-24	+24V@0-25A	600.0W	240	1	0.5	UL/CUL/CB	292.99	276.99	269.99
374062	Mean Well	SCN-600-48	+48V@0-12A	600.0W	480	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99

Call for special  
versions and large  
quantities

\* Primary Output

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend

New Sale Lower\$ QtySave

Order 24/7 Toll Free 1-800-831-4242

185

Power

# 500 to 1500-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 500, 1000 & 1500-Watt Enclosed with Power Factor Correction & Current Sharing

### PSP-500, PSP-1000 & PSP-1500 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- Auto cooling fan
- Mating connector: P/N 103588, pg 144
- Working temperature: -10°C to +60°C
- Voltage adj.: 10%
- 3.6 watts/in<sup>3</sup> maximum
- Remote sense and control
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

PSP-500 & PSP-1000: • Parallel operation (current sharing) • Universal AC input: 90-264VAC @ 47-63Hz, 127-370VDC  
PSP-1500: • Universal AC input: 176-264VAC @ 47-63Hz, 248-370VDC



PSP-500

## 1000 & 1500-Watt Enclosed with Power Factor Correction

- Universal AC input/full range
- Short circuit, overload, overvoltage, overtemperature protection
- Forced air cooling by built-in fan
- Working temperature: -20°C to +70°C
- Built-in remote ON-OFF control
- Three-year warranty
- Built-in 5V/0.5A auxiliary power
- DC OK signal
- Power density: 10.7W/in<sup>3</sup>
- Size: 11.6"L x 5"W x 1.6"H
- Current sharing up to 6000W (3 + 1)
- 8.3W / inch<sup>3</sup>
- Size: 10.9"L x 5.0"W x 3.3"H

### RSP-1000 Series: Single Output

- 1U low profile (41 mm)

### RSP-1500 Series: Single Output, Current Sharing

- ZVS new technology
- Built-in 12V/1A auxiliary power



RSP-1500

## 800-Watt Enclosed with Power Factor Correction

### SCP-800 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/260-370VDC
- PFC: >0.98 @ 230VAC
- Short circuit, overload, overvoltage, overtemperature protection
- Forced air cooling by built-in DC fan
- Built-in remote sense function, and remote ON-OFF function
- Power good signal
- With parallel function (N + 1)
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Mating connector: P/N 103588 or 302877, pg 142
- Working temperature: -20°C to +65°C
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



Open-Frame Power Supplies on pages 175-179.



For PC Power Supplies, see page 210.



		At Value Prices																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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\* Primary Output

Call for special versions and large quantities

## Custom-Configured Mean Well Modular Power Supplies

### Specific Configurations for All of Your Power Needs!

Looking for a supply with unique voltage or current requirements? How about more than four outputs? Now Jameco offers Mean Well's Modular power supplies, custom-configured at the factory to your specific needs, with up to 14 isolated outputs.

There are thousands of combinations available for the modular series. This solution provides engineers with one of the fastest ways to procure custom configured power supplies with safety and EMC certificates.

These modular power supplies are custom orders. For all inquiries including specific lead times, please contact Jameco's Power Supply Department at 1-800-794-9100 ext. 3.



RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# DIN-Rail Switching, Precision & Desktop Power Supplies

## DIN-Rail Switching Power Supplies



- Low cost, high reliability • Universal AC input range • Soft-start circuit, limiting AC surge current • 100% full-load burn-in test
- Short circuit, overload, overvoltage protection • For DIN-Rail terminal blocks see pg 140

Part No.	Product No.	Fig.	Pwr (W)	Output Volts@Curr.	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
373174	DR-30-5	1	15	5VDC @ 3A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	\$43.19	\$38.86	\$34.98
373182	DR-30-12	1	24	12VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	43.19	38.86	34.98
373191	DR-30-15	1	30	15VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373203	DR-30-24	1	36	24VDC @ 1.5A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	43.29	38.96	35.06
212303	DR-4505	2	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	48.35	43.53	39.16
192699	DR-4512	2	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	48.35	43.53	39.16
221875	DR-4515	2	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	48.35	43.53	39.16
192681	DR-4524	2	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	48.35	43.53	39.16
373212	DR-60-5	1	32.5	5VDC @ 6.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	45.51
373230	DR-60-12	1	54	12VDC @ 4.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	44.51
373238	DR-60-15	1	60	15VDC @ 4A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	44.51
373246	DR-60-24	1	60	24VDC @ 2.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	54.95	49.45	45.51
212291	DR-7512	3	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	86.15	81.18	73.06
212282	DR-7524	3	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	81.35	73.21	65.89
212274	DR-12012	4	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	97.99	92.07	87.47
212266	DR-12024	4	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
221904	DR-12048	4	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	89.95	80.96	72.87
221892	DRP-24024	5	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
221883	DRP-24048	5	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
373123	DRT-240-24	5	240	24VDC @ 10A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	183.95	165.56	157.28
252663	DRP-48024	6	480	24VDC @ 20A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	229.89	207.99	187.19
252655	DRP-48048	6	480	48VDC @ 10A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	229.89	207.99	187.19
295938	DRP-480S-24	6	480	24VDC @ 20A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	236.65	214.99	191.67
301306	DRP-480S-48	6	480	48VDC @ 10A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	236.65	214.99	191.67
373131	DRT-960-24	6	960	24VDC @ 40A	3-phase 340-550 @ 47-63	2.0A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	445.49	400.95	360.86
373149	DRT-960-48	6	960	48VDC @ 20A	3-phase 340-550 @ 47-63	2.0A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	445.49	400.95	360.86
Part No.	Cross Ref. No.	Description		Material	Type	Length		1	10	100	
248736	2094.0	Prepunched DIN mounting rail		Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")		\$7.15	\$5.72	\$4.31	

\* Switch selectable † With Power Factor Correction

## 13.8VDC Precision Regulated Power Supplies

- Heavy duty 5'8" 3-prong power cord • Illuminated rocker switch
- Short circuit protected • Fuse protected
- Output mating terminals: see pg 145 for cigarette plugs & pg 224 for banana terminal plugs

135845  
Banana/  
Cigarette



136581  
Banana  
terminal



138668  
Banana  
terminal  
(rear)



Part No.	Model No.	Power (W)	Output Volts@Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845	RPS1204	55.2	13.8VDC @ 4A	115VAC @ 60Hz	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	\$38.34	\$34.62	\$31.55
136581	RPS1207	96.6	13.8VDC @ 7A	115VAC @ 60Hz	Banana terminals	8.7 x 5.7 x 3.6	8.5	69.95	59.95	54.95
138668	38-381	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138676	52-192012	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

# P/N 136581 includes overheating protection



## 108-Watt Desktop Power Supplies

- Input voltage: 88-132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Short circuit, overload, overvoltage, overtemperature protection
- Line regulation: ±5%
- Front panel on/off switch & 3 color LED loading indicator
- Back panel 3-prong AC receptacle and banana plugs
- Size: 5.9"W x 5.5"D x 3.3"H • Weight: 3.3 lbs.

673230



673230:

- Ripple and noise max.: 120mVp-p
- Voltage adjustment range: 12VDC to 15VDC
- Efficiency (typical): 81%
- Load regulation: ±2%

673256:

- Ripple and noise max.: 150mVp-p
- Voltage adjustment range: 24VDC to 30VDC
- Efficiency (typical): 83%
- Load regulation: ±1%

Part No.	Product No.	Description	1	10	25
673230	ESP-120-13.5	13.5V @ 0 - 8A	\$58.39	\$56.93	\$54.99
673256	ESP-120-27	27V @ 0 - 4A	69.69	67.85	63.99

www.Jameco.com

For Power-One power products visit our website today.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
New Sale Lower\$ QtySave

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187

# Linear, Rackmount Power Supplies & DC-DC Converters

Color Code Legend			
New	Sale	Lower\$	QtySave



For more Power-One power supplies visit [www.Jameco.com](http://www.Jameco.com)

## Linear Power Supplies

- Worldwide AC input capabilities – 100/120/220/230/240 VAC
- Low output ripple
- 100% burn-in test
- 2-year warranty
- UL/CSA/TUV approvals
- CE marked to low voltage directive
- Overvoltage protection standard on 5V single outputs
- Output regulation:  $\pm 0.05\%$
- Load & line regulation:  $\pm 0.05\%$
- MTBF in excess of 300,000 hours



Part No.	Product No.	Output Voltage (VAC) @ Current (A)	Ripple & Noise (mV p-p)	Size (L" x W" x H")	1	10	100
697371	HAA15-0.8-A	+12@1.0; -5@0.4	5.0	6.50 x 4.00 x 2.10	\$63.79	\$60.75	\$57.86
697389	HB24-1.2-A	+24@1.2	3.0	4.87 x 4.00 x 2.10	51.85	49.36	47.01
697397	HB5-3/OVP-A	+5@3.0	5.0	4.87 x 4.00 x 2.10	51.85	49.36	47.01
697400	HC24-2.4-A	+24@2.4	3.0	5.62 x 4.87 x 2.95	74.25	70.71	67.35
697426	HCC15-3-A	+12@3.4; -12@3.4	5.0	9.38 x 4.87 x 3.28	130.09	123.87	117.97
697451	HTAA-16W-A	+5@2.0; +12 to +15@0.4; -12 to -15 @ 0.4	5.0	6.50 x 4.00 x 2.10	81.75	77.83	74.13



## Rackmount Power Supplies

Lower \$\$\$

### N+1 DC Power System with Battery Back-up Charging

- N+1 redundancy
- Volt/ampere meter
- Input voltage range: 105 to 125VAC, 60Hz
- Remote monitoring and indication
- Forced air cooling by 2 fans
- Short circuit, current limit, fan failure, input surge suppression protection
- Chassis & cover: steel (black epoxy powder coat) • Size: 19"W x 15.9"D x 3.6"H



Part No.	Product No.	Output (VDC @ A)	Wt. (lbs.)	1	10	25
673272	SEC-40BRM	13.8 @ 40	20.5	\$449.95	\$427.45	\$406.09
673281	SEC-60BRM	13.8 @ 60	22.0	507.65	473.25	453.49
673299	SEC-80BRM	13.8 @ 80	23.5	584.35	555.19	527.39
673310	SEC-100BRM	13.8 @ 100	25.0	659.95	626.95	595.65
677396	SEC-2430BRM	27.6 @ 30	22	524.39	498.15	473.25
677484	SEC-2450BRM	27.6 @ 50	25	671.75	638.15	606.25

### 600W Single Output

Lower \$\$\$

- AC Input active surge current limiting
- Forced air cooling by built-in DC fan
- Built-in remote sense function • Ripple & noise: 150mVp-p max.
- Input voltage: 90-132VAC/180-264VAC switch selectable
- Short circuit, overload, overvoltage, overtemperature protection
- Size: 19.5"W x 5.0"D x 3.5"H



Part No.	Product No.	Output (VDC @ A)	1	10	25
673336	600-12RM	12 @ 50	\$252.75	\$240.15	\$228.15
673395	SE-600-24RM	24 @ 25	252.75	240.15	228.15
673408	SE-600-48RM	48 @ 12.5	252.75	240.15	228.15

### 2 x 23 Amp

- Input voltage: 100 to 130VAC @ 50/60Hz
- Output current (surge): 24A x 2
- Chassis: aluminum (black anodized) • Cover: steel (black epoxy powder coat)
- UL/CUL approved • Size: 19"W x 8.7"D x 3.5"H



Part No.	Product No.	Output (VDC @ A)	Wt. (lbs.)	1	10	25
673328	SEC-1223R2	13.8 @ 23Ax2	8.2	\$240.15	\$235.27	\$226.74

† This product is a special order, non-cancelable, non-returnable and may take up to 2 weeks to ship.



## DC-DC Converters

★ Please call or visit our website for minimum order quantity and pricing.

Jameco Part No.	Product No.	Input Range	Output		Size (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Pricing		
			Voltage@Current	Power								1	10	100
865549	YNM05S05	3V-5.5V	0.75V to 3.63V@5A	20W	0.80x0.45x0.25	5	.01%	0.3%	-40 to 85	94%	69,000,000	\$17.95	\$16.28	\$14.92
923251	YM12S05	9.6V-14V	0.75V to 5.5V@5A	28W	0.80x0.45x0.25	5	±1mV	—	-40 to 85	92%	71,800,000	15.45	14.03	12.86
865573	YNM12S05-S	9.6V-14V	0.75V to 5.5V@5A	28W	0.80x0.45x0.25	5	±1mV	—	-40 to 85	92%	71,800,000	★	Call	Call
865451	QL48T30012-NCA0	36V-75V	1V@30A	30W	2.30x1.45x0.50	8	±1mV	±1mV	-40 to 85	79%	2,600,000	187.35	170.31	156.12
865629	ZY1207-T2 (POL)	3V-14V	0.5 to 5.5V@7A	38W	0.86x0.50x0.25	36	0.2%	0.2%	-40 to 85	—	6,240,000	31.35	28.45	26.08
865434	QD48T033050-NBA0	36V-75V	3.3V@15A; 5V@10A	100W	2.30x1.45x0.34	7	±2mV	±2mV	-40 to 85	88%	2,600,000	228.69	207.87	190.56
865514	SQT48T38096-NDBLG	38V-55V	9.6V@38A	364.8W	2.30x0.90x0.48	5	—	—	-40 to 85	95.2%	TBD	114.95	105.19	96.43

More products available on our website. Visit us online today at [www.Jameco.com](http://www.Jameco.com)

† This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

See page 253 for more  
Encapsulated Converters

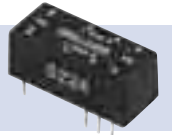
## 0.5 & 1-Watt Unregulated Encapsulated Converters

### 0.5 & 1-Watt

**SRS-05 & SPR01 Series:**  
Single Output

- 1000VDC isolation
- Input filter: capacitor type
- Working temperature: -15°C to +60°C
- No external components needed
- 100% burn-in test
- Protection: short circuit
- One-year warranty

SRS-05



## 3 to 15-Watt Encapsulated Converters

- 1000VDC isolation
- Shielded metal case
- Input filter: Pi network
- Protection: short circuit & overload
- 2:1 wide input range
- One-year warranty
- 100% burn-in test

### 3, 5 & 10-Watt SCW03, DCW03, SLW05, SKE10 & DKE10 Series: Single & Dual Outputs

- Regulated
- Working temperature: -15°C to +60°C



PERFORMANCE  
At Value Prices

SLW05



### 15-Watt SKE15 & DKE15 Series: Single & Dual Outputs

- Regulated
- Free-air convection cooling
- Working temperature: -15°C to +60°C

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Product No.	Input Range	Output		Size Inches (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
213226	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	\$5.05	\$4.79	\$4.55	\$4.33
216831	SPR01L-12	4.5-5.5V	+12V@84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100	9.49	8.54	7.68	6.91
213269	SCW03A-05	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	16.75	15.07	13.60	12.19
155919	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
161702	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	22.19	20.02	18.01	16.21
220354	SLW05A-033	9-18V	+3.3V@1500mA	5W	2.0x1.0x0.44	5	0.2	0.5	100	23.95	21.54	19.40	17.45
216929	SLW05A-05	9-18V	+5V@1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	26.45	23.37	21.47	19.35
216882	SLW05A-15	9-18V	+15V@333mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216937	SLW05B-05	18-36V	+5V@100mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216911	SLW05B-12	18-36V	+12V@417mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
213234	SLW05C-05	36-72V	+5V@1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	19.49	17.52	15.76	14.19
216962	SKE10A-05	9-18V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	34.29	30.85	27.22	26.27
216980	SKE10A-15	9-18V	+15V@666mA	10W	2.0x1.0x0.44	5	0.3	1.0	60	34.29	30.85	27.22	26.27
216953	SKE10B-05	18-36V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
217024	SKE10B-12	18-36V	+12V@840mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	35.79	33.39	30.79	28.89
216945	SKE10C-05	36-72V	+5V@2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	34.29	30.85	27.22	26.27
217032	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	38.09	34.29	27.42	20.57
217092	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	36.35	32.71	29.07	26.47
217112	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217075	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
155716	SKE15A-05	9-18V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	35.99	32.49	29.15	26.35
155708	SKE15A-12	9-18V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155695	SKE15A-24	9-18V	+24V@625mA	15W	2x2x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213277	SKE15B-05	18-36V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
213285	SKE15B-12	18-36V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
213293	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2x2x0.43	5	0.3	0.5	80	32.95	29.69	26.90	24.05

## 25 to 150-Watt Enclosed Converters

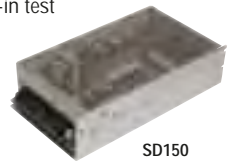
- Input filter: Pi-network
- Working temperature: -10°C to +60°C
- 2:1 wide input range
- Protection: short circuit, overload and overvoltage
- Shielded metal case
- One-year warranty
- 100% burn-in test

### 25-Watt SD-25 Series: Single Output

- Isolation voltage: 500VDC





PERFORMANCE  
At Value Prices



### 50, 100 & 150-Watt SD-50, SD-100 & SD-150 Series: Single Output

- Isolation voltage: 1500VDC
- Mounting hardware: use P/Ns 222156 & 222173 (see web)

Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
175662	SD-25A-5	9-18V	+5V@500mA	25.0W	3.9x3.8x1.4	5	0.5	0.5	100	\$42.99	\$32.54	\$30.44	\$26.24
175805	SD-25A-12	9-18V	+12V@2100mA	25.2W	3.9x3.8x1.4	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175813	SD-25A-24	9-18V	+24V@1100mA	26.4W	3.9x3.8x1.4	5	0.2	0.2	150	44.65	33.78	31.60	27.24
212549	SD-50A-5	9-18V	+5V@10A	50.0W	6.3x3.8x1.5	5	0.5	0.5	100	35.79	32.53	29.58	26.89
212531	SD-50B-12	19-36V	+12V@4.2A	50.4W	6.3x3.8x1.5	5	0.3	0.3	120	54.55	49.09	39.27	28.05
212514	SD-50B-24	19-36V	+24V@2.1A	50.4W	6.3x3.8x1.5	5	0.2	0.2	150	38.29	34.46	27.57	26.55
212506	SD-50C-12	36-72V	+12V@4.2A	50.4W	6.3x3.8x1.5	5	0.3	0.3	120	51.95	39.99	36.99	32.99
212469	SD-100C-12	36-72V	+12V@8.5A	102.0W	7.8x3.9x1.5	7	0.3	0.3	120	66.49	56.15	53.03	46.79
217270	SD-150B-12	19-36V	+12V@12.5A	150.0W	7.8x4.3x2.0	7	0.5	0.5	120	82.95	74.66	59.72	44.79

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# 6 to 15-Amp Non-Isolated, Point-of-Load Converters

Color Code Legend			
New	Sale	Lower\$	QtySave

## 6 to 15-Amp Point-of-Load Converters

- Auto-Track™ sequencing
- Margin up/down controls
- Output ON/OFF inhibit, output voltage sense
- Point-of-load alliance (POLA) compatible

- Wide output voltage adjust

907403

907569

908078



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Pricing		
			Voltage@Current	Power								1	10	100
907403	PTH03060WAH	2.95V-3.65V	0.8-2.5V@10A	25W	1.0x0.62x0.35	10	10mV	12mV	-40 to +85	93	7,092,000	\$24.19	\$22.49	\$21.19
907569	PTH05010WAS	4.5V-5.5V	0.8-3.6V@15A	54W	1.4x0.62x0.35	10	10mV	12mV	-40 to +85	95	7,092,000	28.65	26.63	25.09
908078	PTH12050WAS	10.8V-13.2V	1.2-5.5V@6A	33W	0.87x0.5x0.34	6	5mV	5mV	-40 to +85	93	7,092,000	17.05	15.85	14.93

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

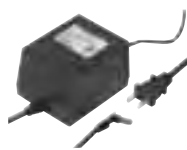
## AC-to-DC Regulated & Unregulated Table-Top Power Supplies

We will change any power plug (pg 145) on any table-top power supply (100 pc. minimum) for a small additional charge.

### AC-to-DC Regulated Linear & Unregulated Table-Top Power Supplies

Quantity SAVE

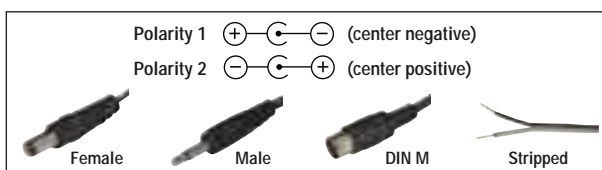
See page 202 for International Power Cords



211060



689661



243109



143714

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25	211060	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F 2	No	Black	3.4 x 2.7 x 2.2	6'6"/6'	1.7	UL/CSA	\$12.19	\$10.97	\$9.03	\$6.58
	174845	Jameco	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'6'	2.6	—	18.65	16.78	13.42	10.07
3-Wire AC Input – Regulated Linear																	
30-55	689661	Regal	RTJG-5500	30	+5/1; -5/0.5	120@60	5-pin DIN M	No	Black	5.1 x 3.6 x 2.8	6'6'	2.7	UL	\$17.95	\$16.15	\$14.25	\$11.95
	689653	Regal	RJM-551228	55	+5/0.9; -5/0.2; +12/0.62; -28/0.16	120@60	6-pin DIN M	No	Black	5.1 x 3.6 x 2.8	6'6'	1.3	CUL	24.95	22.49	19.95	16.49
2-Wire AC Input – Unregulated																	
10-30 Watts	190051	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'6'	1.9	UL/CUL	\$9.95	\$8.99	\$7.19	\$5.39
	354941	Terayon	AD-121ADT	12	+12/1.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.3 x 1.9	6'6'	1.4	UL/CUL	11.05	9.39	7.98	6.78
	136565	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'6'	1.2	—	15.35	13.82	11.05	8.29
	140880	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'6'	1.5	UL	15.85	14.24	12.10	9.08
	143714	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'6'	2.2	CUL-No UL	19.75	17.76	15.99	14.39
	143722	Jameco	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'6'	2.2	UL/CUL	18.19	14.55	12.73	11.99
	143731	—	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'6'	1.9	CUL-No UL	15.49	13.99	11.99	10.99
	139096	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'6'	2.5	—	18.49	16.79	15.29	13.99

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

## Accessory Power Input Cords for Table-Top Power Supplies



38041



38050

### Accessory Power Input Cords for Table-Top Power Supplies



189587

For Additional Power Cords See Pages 202-202.

Part No.	Ref. No. *	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
38041	1	3-conductor power cord	Beige	18/3	UL/CSA	6'	0.4	SVT	\$3.35	\$2.83	\$2.74	\$2.64
38050	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	4.15	3.75	3.43	3.09
189587	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.49	2.05	1.99	1.89

\* See page 191 - 192 for table-top power supplies

Over 99% of our catalog products are in stock.  
Place your order by 6PM EST for same business-day shipment.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

# AC-to-DC Regulated Switching Table-Top Power Supplies

We will change any power plug (pg 145) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 202 for International Power Cords



NEW



Polarity 1 (center negative)



Polarity 2 (center positive)

DIN M

Power	Part Number	Brand	Product Number	Output		Input	Output Connector	Pwr. Ind.	Color	Size	Cords*	Wt.	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									VAC@Hz	ID x OD/Polarity F = female; M = male	1	10
2-Wire AC Input – Regulated Switching																	
18-24 Watt	1586242	Phihong	PSAA15W-050-R	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.0 x 1.2	6' 3	—	UL/CUL/TUV/CE	\$20.49	\$18.72	\$17.31	\$15.90
	379612	Mean Well	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379613	Mean Well	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	22.29	19.98	17.49	16.66
	1707067	Mean Well	ES25B07-P1J	22	+7.5/2.93	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 3	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95
	195806	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6' 6	0.9	UL/CUL/TUV/CE	32.45	29.19	26.31	23.66
	195768	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.9	UL/CUL/TUV/CE	22.95	20.66	16.52	15.55
	391770	Mean Well	ES18B12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55
	673651	Artesyn	SSL20C-7612	20	+12/1.67	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.6 x 2.4 x 1.1	3' 3 3	0.4	UL/CSA/DVE	17.95	15.25	12.96	11.02
	1537555	APD	DA-24B12	24	+12/2.0	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.2 x 1.3	6' 3	0.4	UL/CUL/TUV/CE	18.95	17.95	16.15	13.95
	1586251	Phihong	PSAA15W-120-R	15	+12/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.0 x 1.2	6' 3	—	UL/CUL/TUV/CE	20.49	18.72	17.31	15.90
1707075	Mean Well	ES18B28-P1J	18	+28/0.64	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 3	0.5	UL/CUL/TUV/CE	14.95	13.45	11.49	9.75	
196138	DVE	DSA-0283A	23	+5/1, +12/1.49 -5/0.43	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6' 3	0.8	UL/CSA/TUV	19.95	18.95	15.48	11.62	
25-50 Watt	379939	Mean Well	ES25B09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	23.39	20.94	18.33	17.46
	377942	Mean Well	P30B-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CSA/TUV/CE	26.99	24.13	21.82	20.73
	1707104	Mean Well	ES25B48-P1J	25	+15/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.2 x 2.1 x 1.3	6' 3	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95
	379955	Mean Well	ES25B15-P1JU	25	+15/1.67	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	24.85	22.24	19.47	18.28
	379971	Mean Well	ES25B24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 6	0.5	UL/CSA/TUV/CE	24.83	22.24	19.47	18.28
	221613	Mean Well	P30B-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.8	UL/CUL/TUV/CE	28.79	25.92	23.29	21.08
	205911	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6' 7	1.1	UL/CUL	17.49	15.75	12.59	9.45
	220442	Horizon	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.0 x 1.2	6' 3	0.6	UL/CUL/TUV/CE	29.95	26.96	21.56	16.17
	1586306	Phihong	PSC60W-120-R	50	+12/4.16	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.0 x 2.5 x 1.3	5' 3	—	UL/CUL/TUV/CE	36.55	33.37	30.75	29.21
1707139	Mean Well	ES25B48-P1J	25	+48/0.52	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6' 3	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95	
3-Wire AC Input – Regulated Switching																	
10-20 Watt	221568	Mean Well	P40A-0P2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.8	UL/CUL/TUV/CE	\$27.79	\$25.04	\$22.89	\$20.63
	308700	Be-Well	ZD0001F	5	+5/1.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.2 x 2.0 x 1.6	6' 2	0.4	UL/CUL/TUV/CE	14.99	12.75	9.55	6.69
	309876	Go Forward	G112-US05020	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	2.6 x 1.9 x 1.3	6' 2	0.4	UL/CUL/TUV/CE	17.75	15.98	12.78	9.59
	196218	GlobTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6' 2	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	695244	DVE	DSA-0151D-05	12	+5/2.4	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	3.9 x 2.0 x 1.4	6' 2	0.5	UL/CUL/TUV/CE	17.29	15.95	14.40	12.95
	377845	Mean Well	ES18A05-P1JU	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55
	379720	Mean Well	ES18A05-P1MU	15	+5/3.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	355506	APS	AD-740U-1050/LP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.6	6' 1	0.8	UL/CUL/TUV/CE	17.29	15.56	12.45	9.34
	380471	Mean Well	ES25A05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	213584	Mean Well	P30A-1P2JU	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CUL/TUV/CE	26.05	23.45	21.62	20.54
1586269	Phihong	PSC30U-050-R	20	+5/5.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6' 2	—	UL/CUL/TUV/CE	27.25	24.78	23.27	22.37	
377862	Mean Well	ES18A09-P1JU	18	+9/2.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 2	0.6	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55	
379736	Mean Well	ES18A09-P1MU	18	+9/2.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29	
228989	Phihong	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6' 2	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	16.75	
376623	Mean Well	ES18A12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	24.78	22.74	19.70	19.55	
379702	Mean Well	ES18A12-P1MU	18	+12/1.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29	
1537432	Eng Electric	EPA-201D-12	20	+12/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.4 x 1.3	6' 2	0.2	UL/CUL/TUV/CE	16.95	15.25	13.49	11.49	
1707083	Mean Well	ES18A28-P1J	18	+28/0.64	100-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 2	0.5	UL/CUL/TUV/CE	15.95	14.29	12.49	9.95	
21-27 Watt	213576	Mean Well	P40A-1P2JU	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.7	UL/CUL/TUV/CE	32.95	29.66	23.72	20.60
	380518	Mean Well	ES25A09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379779	Mean Well	ES25A12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	22.75	20.39	17.85	17.00
	380534	Mean Well	ES25A12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377896	Mean Well	P30A-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	26.99	24.85	23.66	22.47
	1707147	Mean Well	ES25A15-P1J	25	+15/1.66	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.6 x 2.1 x 1.4	6' 2	0.4	UL/CUL/TUV/CE	14.95	13.45	11.95	9.95
	379824	Mean Well	ES25A15-P1JU	25	+15/1.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	22.75	20.39	17.85	17.00
	243012	Mean Well	P30A-41P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6' 6	0.8	UL/CUL/TUV/CE	26.15	24.05	22.91	21.75
	379883	Mean Well	ES25A24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	23.39	20.94	18.33	17.46
	380577	Mean Well	ES25A24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 6	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
221681	Mean Well	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6' 6	0.8	UL/CSA/TUV/CE	31.25	28.13	25.30	22.76	
1707091	Mean Well	ES25A28-P1J	25	+28/0.89	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6' 2	0.4	UL/CUL/TUV/CE	14.95	13.45	12.78	12.14	

\* See accessory table-top power cord chart on page 190 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord  
 ▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

† Right angle

Blue Part No. = Limited Quantity Available

3-Wire Table-Top Power Supplies continued on next page

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
 New Sale Lower\$ QtySave

# AC-to-DC Regulated Switching Table-Top Power Supplies (Cont.)

Color Code Legend			
New	Sale	Lower\$	QtySave

See page 202 for International Power Cords

We will change any power plug (pg 145) on any table-top power supply (100 pc. minimum) for a small additional charge.

Lower \$\$\$

Quantity SAVE



206528

229032

211191

211107



DIN M

Polarity 1  $\oplus \text{---} \ominus$  (center negative)

Female

Male

Polarity 2  $\ominus \text{---} \oplus$  (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Pwr (W)	Output	Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
					Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
25-40 Watt	215088	Mean Well	P30A-8P2JU	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	\$24.29	\$23.26	\$22.10	\$20.99
	196270	Everglow	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	29.65	26.70	24.00	21.61
	190960	Mean Well	P25A13D-R1U	26	+5/2.5, +12/0.8-12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	39.99	36.02	32.38	29.18
	221720	Mean Well	P25A14E-R1BU	25	+5/2.5, ±15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	34.25	30.88	27.76	25.01
	320081	GlobTek	TR9CA6000LCP-Y	30	+5/6.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.7 x 2.4 x 1.3	6'/2	0.7	UL/CUL/TUV/CE	31.15	28.87	25.97	23.40
	206528	Mean Well	P40A-1-1P25U	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6'/6'	1.5	UL/CUL/TUV/CE	33.05	29.75	26.44	24.23
	229090	Phihong	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	21.18
	401042	ReliaPro	EA10362	36	+12/3.0	120 240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.9 x 1.8 x 1.2	6'/3	0.7	UL/CUL/TUV/CE	23.69	21.17	19.14	18.19
	1586146	EDAC	EA10301	30	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	3.8 x 1.8 x 1.2	6'/2	6.0	UL/CUL/TUV/CE	18.95	17.10	15.39	13.75
	155214	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV	40.25	36.19	32.56	29.32
	297693	Mean Well	P40A-3P2MU	40	+12/3.3	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	355064	ReliaPro	JR-TT-40-12	40	+12/3.33	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/2	0.6	UL/CUL/TUV/CE	34.69	27.75	24.29	23.04
	1586277	Phihong	PSC30U-120-R	30	+12/5.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	5'/2	—	UL/CUL/TUV/CE	27.25	24.78	23.27	22.37
	229017	Phihong	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	22.12	21.90
	221576	Mean Well	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	37.45	33.62	30.25	27.23
	230481	Phihong	PSA31U-180	30	+18/1.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	23.06	21.91
	229026	Phihong	PSA31U-240	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	27.19	24.70	22.72	21.58
	181885	Mean Well	P40A-6P2JU	40	+24/1.7	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	42.45	38.19	34.36	30.93
297757	Mean Well	P40A-6P2MU	40	+24/1.7	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	41.69	37.54	33.78	30.40	
221584	Mean Well	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	37.35	33.62	26.89	20.16	
211191	Westinghouse	FSA30P31	30	+5/3, ±12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4'/2	1.1	UL/CSA/TUV	25.95	23.35	18.68	14.01	
41-50 Watt	221488	Mean Well	SPU50-1U	50	+5/10	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	2.0	UL/CUL/TUV/CE	36.95	33.95	31.95	29.49
	622547	Samsung	AD-4212L	42	+12/3.5	100-240@50/60	1.6mm x 4.0mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6'/2	0.6	UL/CUL/CE	21.95	19.75	15.80	11.85
	622555	Samsung	AD-4212L-2.1	42	+12/3.5	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6'/2	0.6	UL/CUL/CE	24.95	22.45	17.96	13.47
	1537256	Ault	PW125RA2403F2	41	+24/1.7	100-250@50-60	2.5mm x 5.5mm F 2	Yes	Black	3.9 x 2.6 x 1.7	6'/2	0.7	UL/CUL/TUV/CE	27.95	25.15	22.69	19.95
	221702	Mean Well	P50A13D-R1BU	50	+5/4.0, +12/2.0-12/0.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.5	UL/CUL/TUV/CE	56.35	50.75	45.68	41.08
	211107	Fortron	FSA55P31	45	+5/5, +12/3-12/0.5	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4'/2	1.6	UL/CSA/TUV	49.95	44.96	35.96	26.24
	237367	Mean Well	P50A14E-R1BU	42	+5/3.5, +15/1.2-15/0.3	100-240@47-63	5-pin DIN M	Yes	Black	5.8 x 3.0 x 1.7	4'/6'	1.2	UL/CUL/TUV/CE	42.49	38.25	37.25	36.26
60-80 Watt	155231	Mean Well	SPU50-3U	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV	63.35	58.41	52.57	47.31
	297722	Mean Well	SPU50-3P2MU	60	+12/5.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	49.95	44.95	44.45	43.96
	1586314	Phihong	PSC60M-120-R	60	+12/5.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	5.1 x 2.4 x 1.3	4'/	—	UL/CUL/TUV/CE	39.55	35.89	33.10	31.44
	376607	Mean Well	P66A-3P2JU	66	+12/5.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	42.89	38.62	33.80	32.17
	379672	Mean Well	P66A-3P2MU	66	+12/5.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	41.95	38.31	33.52	31.91
	391743	Mean Well	P66A-4P2JU	66	+15/4.4	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	42.25	35.21	32.02	31.49
	221429	Mean Well	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	74.69	67.23	60.50	50.41
	221437	Mean Well	U65S106-P2JU	80	+15/5.33	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	67.55	57.50	51.95	49.39
	243046	Mean Well	P66A-5P2JU	66	+18/3.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CUL/TUV/CE	46.19	41.90	38.66	35.46
	221445	Mean Well	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	77.95	66.35	59.94	56.99
	161606	Mean Well	SPU50-6U	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9/16"	1.3	UL/CSA/TUV	49.45	43.95	39.55	36.25
	297634	Mean Well	SPU50-6P2MU	60	+24/2.5	95-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	59.35	50.94	47.45	43.96
	1537125	EDAC	EA1050B-240	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.8 x 2.4 x 1.4	6'/2	1.8	UL/CUL/TUV/CE	34.95	31.45	28.30	25.45
	355056	ReliaPro	JR-TT-66-24	66	+24/2.75	90-264@50-60	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/2	1.2	UL/CUL/TUV/CE	45.45	43.16	41.00	38.94
	1708342	Potrans	BUP07211240	72	+24/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	5.3 x 2.3 x 1.4	6'/2	1.0	TUV/CE	39.95	35.95	31.29	26.95
	221453	Mean Well	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	65.59	55.84	50.44	47.96
	1586322	Phihong	PSC60M-240-R	60	+24/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	5.1 x 2.4 x 1.3	4'/	—	UL/CUL/TUV/CE	39.55	35.89	33.10	31.44
	376615	Mean Well	P66A-8P2JU	66	+48/1.37	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	41.95	38.31	33.52	32.46
172065	Mean Well	SPU50-9U	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CSA/TUV	53.95	48.59	43.74	39.35	
221462	Mean Well	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	70.15	59.71	53.95	51.29	

\* See accessory table-top power cord chart on page 190 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

② Blue Part No. = Limited Quantity Available

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

We will change any power plug (pg 145) on any table-top power supply (100 pc. minimum) for a small additional charge.

## velleman 13W Compact Switching Power Supply

- Input voltage: 110-240VAC @ 50/60Hz
- Selectable outputs: 3VDC, 4.5VDC, 5VDC, 6VDC, 6.5VDC, 7VDC
- Power LED indicator
- Output current: 1.9A (2.5A maximum)
- Output connectors: 2.5mm x 5.5mm right angle, 2.1mm x 5.5mm right angle, 1mm x 5mm, 1.1mm x 3.8mm, 1.4mm x 3.5mm, & 0.75mm x 2.4mm

Part No.	Product No.	Size (H x W x D)	Price
1537539	PSSM10VU	3.2" x 1.2" x 2.2"	\$32.95

## velleman 24-Watt Switching Power Supply

- Input voltage: 100-240VAC @ 50-60Hz
- Low electromagnetic interference
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China
- Output current: 2A
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm x & 1.7mm x 4mm

Part No.	Product No.	Size (H x W x D)	Price
1537491	PSSMV3	4.7" x 3.3" x 2.5"	\$39.95

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- 3-wire AC input
- 2.5mm x 5.5mm female center positive
- Cord lengths: DC: 6'; AC: use P/N 115078, pg 201
- UL/CUL/TUV/CE approved for medical applications
- Ripple and noise: 1% or 100mV, whichever is smaller
- Size: 2.9"L x 2.0"W x 1.6"H



Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing			
				1	10	50	100
230683	TR9CE1250CP	15.6	+12/1.3	\$34.29	\$30.85	\$27.77	\$24.96
230691	TR9CG1200CP	18.0	+15/1.2	39.54	35.38	28.48	26.61
230763	TR9CE4000LCP	49.2	+12/4.0	56.15	50.51	45.46	40.91
230797	TR9CI2100LCP	50.4	+24/2.1	47.55	35.79	32.21	31.64



## Energy Star/European Compliant Interchangeable-Plug Wall Adapters

Meets US and European Energy Star compliance.  
 Approved for European high-efficiency power applications.



- Field changeable AC plugs (sold separately, see below)
- Power-On LED
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive
- Regulated output
- Class B EMI
- Energy Star and ECOM compliant

### Wall Adapters (plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking

Part No.	Product No.	Power (W)	Output Volt. (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing			
										1	5	25	100
1586218	PSAA05A-050-R	5	5	1.0	100	±5%	±5%	—	2.6 x 1.6 x 1.1	\$7.89	\$7.11	\$6.89	\$6.51
1586226	PSA15R-050-R	15	5	3.0	50	±5%	±5%	70-85	2.8 x 2.0 x 1.3	17.35	15.90	14.88	14.30
1586234	PSA15R-120-R	15	12	1.25	120	±5%	±5%	70-85	2.8 x 2.0 x 1.3	17.35	15.90	14.88	14.30
662881	PSM11R-120	10	12	0.84	120	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	16.65	15.80	15.02	14.27
662910	PSA15R-120P	15	12	1.25	120	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89

### Plug Clip Kit (sold separately, required for above adapters)

Part No.	Product No.	Description	1	10	50	100
229181	RPKIT	Kit w/ RPA/RPE/RPK/RPS	\$2.79	\$2.53	\$2.45	\$2.42



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## velleman Switching Table-Top Power Supplies

- Short circuit, overload protection
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Input voltage: 100-240VAC @ 50/60Hz
- LED power indicator

Includes: power cord

1537504: 28 Watt

- Output voltage: 5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC, 15VDC
- Output current: 3.6A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.7mm x 4mm, 1.5mm x 5.5mm

1537521: 38 Watt

- Output voltage: 5VDC to 24VDC in 1V increments
- Output current: 1.5A to 4A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm, 2.5mm x 5mm

1537512: 70 Watt

- Output voltage: 15VDC/16VDC/18VDC/19VDC/20VDC @ 3.5A; 22VDC/24VDC @ 2.9A
- Output connectors: 2.1mm x 5.5mm right angle, 2.5mm x 5.5mm right angle, 1.64mm x 4.78mm, 2.99mm x 6.28mm, 6.5mm x 14mm

Part No.	Product No.	Size (L x W x H)	Price
1537504	PSSM4VU	3.8" x 2.2" x 1.2"	\$55.95
1537521	PSSM6VU	3.5" x 1.8" x 1.2"	49.95
1537512	PSSM7U	5.5" x 3.2" x 1.7"	95.95



## Universal 60-Watt Table-Top Power Supply

RoHS and CEC Compliant

- Input voltage: 90-264VAC @ 40-50Hz (2-wire input)
- Short circuit, overcurrent, overvoltage protection
- Input power saving: 0.75W maximum for 240VAC @ no load
- Efficiency: 80% typical
- Output voltage: 24VDC @ 2.5A
- 2.1mm x 5.5mm female center positive
- UL/CUL/TUV/CE approved

Part No.	Product No.	Size (L x W x H)	1	10	50
229843	PSC60W-240-R	5.1" x 2.4" x 1.3"	\$36.49	\$32.85	\$29.55



Shown with plug clip not included



Shown with plug clip included

**NEW**

# AC-to-DC Regulated Switching Wall Adapters

Color Code Legend			
New	Sale	Lower\$	QtySave

JAMECO ReliaPro

## "Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Input voltage: 100 – 240VAC @ 47-63Hz
- Output cord length: 6'
- Output connector: 2.1mm x 5.5mm F2 (center positive)
- Color: black
- One-year warranty



We'll Brand the Adapters  
With Your Company Name  
Call 1-800-831-4242 for Details



Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
251564	S08AA033150	3.3	1500	2.5x1.1x1.7	0.2	\$12.05	\$10.93	\$10.09	\$9.74
251598	S15AA033250	3.3	2500	2.9x1.3x2.2	0.3	13.55	12.27	11.33	10.94
252701	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	13.86	12.57	11.61	11.21
252719	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	12.45	11.26	10.39	10.03
252727	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.21
252735	S15AB050250	5.0	2500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252752	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	12.05	10.94	10.09	9.74
252770	S08AD090090	9.0	800	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252778	S15AD090120	9.0	1200	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252786	S15AS090170	9.0	1500	2.9x1.3x2.2	0.3	13.75	12.47	11.52	11.11

Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
252794	S08AE120025	12.0	250	2.5x1.1x1.7	0.2	\$11.55	\$10.47	\$9.67	\$9.33
252807	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252815	S08AE120070	12.0	600	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252823	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252832	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
254756	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	13.45	12.19	11.23	10.83
252903	S15AF150120	15.0	1000	2.9x1.3x2.2	0.3	15.95	14.49	13.37	12.90
252857	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	12.05	10.85	8.68	6.51
252866	S15AH240050	24.0	500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252874	S15AH240063	24.0	630	2.9x1.3x2.2	0.3	13.75	12.47	11.94	11.52

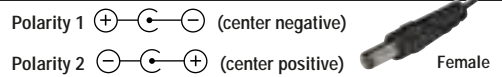
## 2-Wire AC Input – AC-to-DC Regulated Switching Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 145) on any DC adapter listed (100 pc. minimum) for a small additional charge.



236752



319881

Part Number	Brand	Product Number	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
230544	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	4'	0.4	UL/CUL	\$16.29	\$14.80	\$13.76	\$12.45
210894	ReliaPro	S15AB050200	5	2000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	14.25	12.86	11.54	9.63
319881	Mean Well	ES18U05-PIJ	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.65	12.60	11.79	10.98
379622	Mean Well	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380323	Mean Well	ES25U05-P1M	5	4000	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
1707121	Mean Well	SW12U07-P1I	7.5	1500	2.1mm x 5.5mm F 2	100-240@50-60	2.6 x 2.0 x 1.0	Black	6'	0.5	UL/CUL/CE	11.95	10.75	9.49	7.95
380008	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.89	14.83	13.77	12.70
228891	Phihong	PSC10A-090S	9	1100	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.89	12.11	11.10	10.60
228947	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	19.69	17.72	15.94	14.35
319899	Mean Well	ES18U09-PIJ	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.05	12.03	11.26	10.48
380139	Mean Well	ES25U09-PIJ	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.89	14.83	13.77	12.70
380350	Mean Well	ES25U09-P1M	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
312865	Mean Well	ES18U12-P1J	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	14.99	13.85	12.96	12.07
380155	Mean Well	ES25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.09	14.03	13.32	12.67
380358	Mean Well	ES25U12-P1M	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.79	15.39	14.94	14.23
1707112	Mean Well	SW12U15-P1I	15	800	2.1mm x 5.5mm F 2	100-240@50-60	2.6 x 2.0 x 1.0	Black	6'	0.5	UL/CUL/CE	14.95	13.49	11.95	9.95
319920	Mean Well	ES18U15-PIJ	15	1200	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.05	12.03	11.26	9.81
380172	Mean Well	ES25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.69	12.72	12.08	11.49
380366	Mean Well	ES25U15-P1M	15	1670	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.49	16.96	16.42	15.85
380190	Mean Well	ES25U18-P1J	18	1390	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.89	14.83	13.77	12.71
380374	Mean Well	ES25U18-P1M	18	1390	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
319928	Mean Well	ES18U24-PIJ	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.25	12.25	11.46	9.98
380201	Mean Well	ES25U24-P1J	24	1040	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380391	Mean Well	ES25U24-P1M	24	1040	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380219	Mean Well	ES25U28-P1J	28	890	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.15	14.08	13.37	12.71
380412	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380243	Mean Well	ES25U48-P1J	48	520	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.65	13.59	12.91	12.27
380446	Mean Well	ES25U48-P1M	48	520	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47

### Other Manufacturers — Great Deals

189190	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	\$10.95	\$9.85	\$8.59	\$6.75
689864	DVE	DSA-0151A-05	5	2400	2.5mm x 5.5mm right angle F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	11.95	10.75	9.49	7.95
421649	Unifive	US100913	9	1300	2.5mm x 5.5mm F 2	100-120@50-60	2.4 x 1.7 x 1.2	Black	6'	0.2	UL/CUL	14.29	12.84	10.28	7.71
1537547	—	AD1512C	12	1000	2.1mm x 5.5mm F 2	100-240@47-63	2.9 x 1.3 x 2.0	Black	6'	0.3	UL/CUL	13.49	12.15	10.95	9.49

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

● Blue Part No. = Limited Quantity Available

● RoHS compliant product ● This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# AC-to-DC Regulated Linear Wall Adapters



## 2-Wire AC Input – AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.  
 We will change any power plug (pg 145) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

• One-year warranty

Polarity 1  (center negative)	Polarity 2  (center positive)



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	CSA	\$10.95	\$9.86	\$8.87	\$7.98
220935	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	14.75	13.27	10.62	7.97
168605	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	13.39	12.35	11.36	9.76
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.19	8.27	7.18	5.37
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	12.45	10.50	9.86	9.29
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	13.15	11.83	10.64	9.58
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	19.95	17.95	16.15	13.45
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	16.45	14.84	13.42	12.13
174879	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.05	12.70	11.40	10.29

### Other Manufacturers — Great Deals

**Quantity SAVE**

289182	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	\$10.49	\$9.45	\$7.55	\$5.65
319986	—	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.16	5.37
297941	—	DDU-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	13.19	11.87	9.50	7.13
681571	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	13.15	12.89	9.99	7.52
283573	—	DC600500	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	7.85	7.05	6.21	5.49
190529	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	7.15	6.44	5.79	5.21
425527	Condor	48-9-700R	9	700	2.1mm x 5.5mm F 1	120@60	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	11.89	10.97	10.42	9.50

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Philhong and Globtek

## AC to DC Unregulated Linear Wall Adapters



We specialize in Wall Adapters – Call for additional OEM PRICING.  
 We will change any power plug (pg 145) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

• Input: 120VAC @ 60Hz • One-year warranty

Polarity 1  (center negative)	Polarity 2  (center positive)



280250



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$8.29	\$7.47	\$6.72	\$6.05
155601	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	6.25	5.61	5.04	4.20
119255	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	5.95	5.36	4.82	4.14
101266	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.85	4.58	4.21	3.88
15544	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	5.49	4.97	3.97	2.98
147707	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.99	5.49	4.79	4.25
220943	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	10.29	9.28	7.42	5.57
220951	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.84	6.26	5.65	5.15
280250	ReliaPro	DDU075110	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.39	8.04	7.19	5.49
127511	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	8.75	7.88	6.30	4.73
100845	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	4.37	4.07	3.70
134025	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	6.65	5.99	4.79	3.59
100837	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	5.22	4.74	4.30	3.90
133891	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	4.45	4.37	4.07	3.70
189238	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.35	4.52	3.71	2.96
318676	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.39	5.21	4.74	4.31
202155	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	4.95	4.40	3.95	3.56
140636	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	5.49	4.49	3.99	3.68
202171	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	5.19	5.07	4.85	4.67
163628	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	7.09	6.38	5.75	5.10
100853	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.19	5.14	5.09	4.67
147731	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	5.19	5.00	4.50	4.05
236937	ReliaPro	DCU090050A	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.25	5.99	5.87	3.79
15561	ReliaPro	DCU090050	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	6.45	5.78	5.20	4.68

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Philhong and Globtek

More AC-to-DC Wall Adapters listed on pages 194 & 196 - 197

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# AC-to-DC Unregulated Linear Wall Adapters (Continued)

Color Code Legend			
New	Sale	Lower\$	QtySave



We specialize in Wall Adapters – Call for additional OEM PRICING.  
We will change any power plug (pg 145) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

**Lower\$\$\$**

• Input: 120VAC @ 60Hz

• One-year warranty

**Quantity SAVE**



Polarity 1 (center negative) Female Male Stripped Polarity 2 (center positive)

280250

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
202180	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	\$5.19	\$5.07	\$4.90	\$4.67
100175	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.09	5.80	5.23	4.75
202198	ReliaPro	DCU090080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	9.59	8.82	8.41	7.99
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	10.49	9.45	8.33	7.11
127504	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.49	8.53	7.68	6.38
15587	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.35	8.43	6.74	5.06
130526	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	9.85	8.86	7.29	6.59
143693	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	10.99	9.49	8.49	6.99
163993	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.80	4.33
100095	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	5.19	4.70	3.75	2.80
158043	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.85	4.54	3.81	3.28
220433	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	4.95	4.46	3.57	2.68
185658	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.29	4.76	3.81	2.86
121232	ReliaPro	DDU120080	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.29	6.56	5.25	4.93
117479	ReliaPro	DDU120080	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.99	7.36	6.77	6.23
129331	ReliaPro	DDU120080	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.38	6.65	5.98	5.38
100870	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	10.79	9.71	8.74	7.86
105478	ReliaPro	DDU120100	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.25	7.42	6.30	4.73
15392	ReliaPro	DDU120100	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.75	7.88	7.09	6.38
196779	ReliaPro	DDU120120	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.69	8.70	7.81	6.92
203036	ReliaPro	DDU120150	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.39	12.95	10.39	7.77
313226	ReliaPro	DFU120150	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	11.45	10.40	9.33	8.30
136881	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.99	13.49	11.99	10.99
101291	ReliaPro	D571201500U	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	13.85	12.89	11.72	10.65
249738	ReliaPro	MW57-1202000	12	2000	Stripped & tinted	3.3 x 2.7 x 2.2	Black	10'	2.0	UL/CUL	9.95	8.95	8.05	7.25
308099	ReliaPro	DDU135100	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.89	9.00	8.17	7.44
212812	ReliaPro	DBU140020	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	6.99	6.15	5.59	4.99
212821	ReliaPro	DBU140030	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	5.45	4.90	3.91	3.15
123932	ReliaPro	DDU140070	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.35	8.41	6.89	6.19
202243	ReliaPro	DDU140070	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	12.89	11.62	9.28	6.96
202260	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	10.95	9.56	8.60	6.45
190001	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.99	7.27	5.83	4.38
189982	ReliaPro	DCU150050	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.99	7.27	5.83	4.38
155803	ReliaPro	DDU150060	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	9.85	8.86	7.09	5.31
203502	ReliaPro	DDU150090	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.95	9.59	8.59	6.36
151992	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	9.35	8.41	6.72	5.04
191652	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	11.09	9.99	8.99	8.09

## Other Manufacturers — Great Deals

320303	Globtek	WRIA1000CCP-N	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	\$9.49	\$8.55	\$6.85	\$5.15
219651	—	FE4823-050E120	5	1200	2.5mm x 5.5mm F 2	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	5.15	4.47	3.71	2.78
237251	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.35	2.85	2.42	2.06
302439	—	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.45	3.56	2.66
682363	Epson	H00AA	6	600	2.1mm x 5.5mm F 1	2.4 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.49	3.95	3.49	2.49
248751	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50
1581337	KTEC	KA12D0751120045U	7.5	1200	2.1mm x 5.5mm F 2	3.0 x 2.2 x 1.7	Black	6	0.9	UL/CUL	6.49	5.85	4.69	3.50
355936	—	35-9-200C	9	200	1.3mm x 3.5mm F 2	2.5 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.29	3.78	3.02	2.78
1585995	Motorola	SPN4622A	9	300	2.1mm x 5.5mm F 2	2.3 x 1.8 x 1.5	Black	6	.40	UL	3.95	3.59	3.29	2.95
1586162	CUI Stack	DDU090050	9	500	3.5mm M 2	2.3 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.39	3.85	3.19
170270	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.95	4.46	3.56	2.67
164929	—	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	10.99	9.55	8.39	6.79
227774	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.16	5.72	4.29
421690	—	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	7.15	5.68	4.97	3.73
1586082	GTE	ADP2108GT	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	7.15	5.75	4.85
237067	APS	D9-15-950	9	1500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	9.95	8.96	7.16	5.37
457799	Condor	DSC-0151F-09	9	2000	2.1mm x 5.5mm F 1	3.2 x 2.1 x 1.7	Black	6'	0.5	UL/CUL	12.75	11.83	11.24	10.68
684836	Southwest Bell	KEC-41-100-5	10	500	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.65
1537441	CUI INC.	KA12D1200450344	12	450	2.1mm x 5.5mm F 2	2.5 x 1.8 x 1.5	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695252	—	L4D-120050R	12	500	1.3mm x 3.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695261	—	L4D-120050R-2.5	12	500	2.5mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
695279	—	L4D-120050R-3.5	12	500	3.5mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.95
305103	—	AD1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.19	4.71	3.72	2.79

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

More AC-to-DC Wall Adapters listed on pages 194 – 195 & 197

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

# AC-to-DC Unregulated Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 145) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.



**Lower \$\$\$**

• Input: 120VAC @ 60Hz

• One-year warranty

**Quantity SAVE**

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
162317	ReliaPro	DDU165050	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	\$10.49	\$9.18	\$8.24	\$7.38
181729	ReliaPro	DCU180025	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	7.65	6.89	5.50	4.12
163272	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	5.65	5.09	4.42	3.75
206958	ReliaPro	DDU180100	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.86	7.91	5.93
102285	ReliaPro	DDU240040	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.75	7.91	7.09	6.43
163635	ReliaPro	DDU240050	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	14.99	13.80	11.35	9.79
191556	ReliaPro	DDU240050	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.79	9.28	9.10	8.93
139088	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.99	8.49	7.75	6.49
168495	ReliaPro	DFU240080	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	12.89	11.60	10.44	9.40
220960	ReliaPro	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	15.29	14.25	12.53	11.98
249130	ReliaPro	AFU240120/G8530	24	1200	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
249121	ReliaPro	DFU240120/G8520	24	1200	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	21.59	21.10	17.71	16.90
249113	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
199523	ReliaPro	DDU300050	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	11.75	10.55	8.44	6.33
215095	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.35	7.49	6.79	6.05
215109	ReliaPro	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	10.95	9.85	8.85	7.95
230640	ReliaPro	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	11.95	10.76	8.60	6.45
15309	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.49	8.54	7.69	6.92
123158	ReliaPro	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	None	10.95	9.86	8.87	7.98
219601	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	4.79	4.30	3.43	2.72
318692	ReliaPro	DBU120030	12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	3.73	3.29	2.52
127976	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	5.99	5.66	5.04	4.64
249236	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	6.45	5.79	4.64	3.48
190503	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	10.35	9.32	7.46	5.63
114825	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.29	4.99	4.37	4.10
15368	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	8.29	7.47	6.72	6.04
102496	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	6.15	5.41	4.92
131300	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	7.25	6.53	5.65	4.95
102277	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	7.19	6.47	5.83	5.24
17267	ReliaPro	DCU120050	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.05	5.80	5.23	4.75
202201	ReliaPro	DCU120060	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.39	6.92	6.09	5.69
202219	ReliaPro	DCU120070	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.84	6.17	4.94	3.70

## Other Manufacturers — Great Deals

320081	GlobTek	TR9CA6000LCP-Y	12	800	2.5mm x 5.5mm F 2	4.7 x 2.4 x 1.3	Black	6'	0.7	UL/CUL/TUV/CE	\$31.15	\$28.87	\$25.97	\$23.40
240101	Broadxent	AD-121AN	12	1000	2.1mm x 5.5mm F 2	2.8 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.49	6.75	5.95	4.95
189579	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	8.75	7.91	6.32	4.79
1585987	Globtek	GT-357-12-1500	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.5	UL/CUL	10.95	9.85	8.59	7.25
129314	—	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	3.95	3.49	2.62
681563	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	8.95	7.95	6.95	5.90
217568	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	5.99	5.39	4.31	3.23
206957	GlobTek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.4	None	9.95	8.96	7.16	5.37
404339	Ault	P48240500A020G	24	500	2.1mm x 5.5mm F 2	2.5 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.45	5.99	5.24	4.97
196322	3Com	P4824060A020G	24	600	2.1mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	9.69	8.72	6.98	5.24

† 120 to 220VAC

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

## 2-Wire AC Input – AC-to-AC Wall Adapters



- Input: 120VAC @ 60Hz
- One-year warranty









Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
249017	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	\$6.19	\$5.61	\$4.47	\$4.02
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	6.39	5.75	4.89	3.99
236814	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	6.55	5.88	5.30	4.77
102234	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
157041	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	9.19	8.27	7.44	6.70
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	13.75	12.71	10.87	9.40
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.29	6.05	5.93	5.44
10081	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	6.89	6.52	6.52	5.48
100167	ReliaPro	A41120100U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.95	5.36	4.28	3.21
10428	ReliaPro	ACU120100	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	6.09	5.51	4.98	4.48

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

Continued on next page

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

# 2-Wire AC Input – AC-to-AC Wall Adapters & Transformers

Color Code Legend			
New	Sale	Lower\$	QtySave

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 145) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

**Quantity SAVE**



- Input: 120VAC @ 60Hz
- One-year warranty

**Lower\$\$\$**



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	\$7.59	\$6.87	\$6.10	\$5.13
307838	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	14.45	13.29	10.87	9.35
153761	ReliaPro	ADU120160	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	14.45	13.01	11.72	10.54
318684	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	14.35	10.80	9.64	8.22
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.49	9.46	7.56	5.68
163053	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	9.85	8.87	7.10	5.33
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	9.85	8.86	7.98	6.77
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	6.89	6.52	6.25	5.48
140599	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	11.85	10.50	8.43	6.35
10102	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.49	9.47	8.51	7.14
176356	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	None	13.85	12.88	10.53	8.31

## Other Manufacturers — Great Deals

210729	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	\$3.95	\$3.49	\$2.95	\$2.21
249295	Pacrim	41A-9-700	9	700	2.5mm x 5.5mm F	2.3 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	3.95	3.49	3.15	2.36
233293	Horizon	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	5.15	4.64	3.71	2.78
355531	—	MW41-0901000A	9	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.45	4.00	3.20	2.40
1581281	—	AA-091A	9	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.25	5.49	4.65
1586154	—	A9-1A	9	1000	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	3.95	3.29
320258	Ault	T48091500A010G	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	12.89	11.59	9.28	6.96
217550	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	5.95	5.36	4.28	3.21
688634	—	PP-1012-A	10	1200	2.5mm x 5.5mm F	3.5 x 2.5 x 1.9	Black	6'	1.3	UL	5.49	4.95	4.25	3.59
1707155	Multi-Link	AA-1250G	12	500	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL	4.49	4.05	3.59	2.95
285069	Shogyo	DV-1283	12	830	2.5mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	6.39	5.09	4.47	4.24
309884	—	AA-121A	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	—	UL/CUL	4.89	4.40	3.52	2.64
206404	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.55	6.82	6.19	5.34
421585	JBL Inc	A12-1A-01	14	850	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	White	6'	0.6	UL/CSA	5.55	5.00	4.00	3.00
185439	Ault	T5182200-A020G*	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	None	9.89	8.90	7.13	5.35
206439	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.55	6.82	6.19	5.34

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek \*3-Prong

## 36-Watt AC-to-AC Table-Top Power Supply

**Quantity SAVE**

- Input voltage: 120VAC @ 60Hz
- Output voltage: 12VAC @ 3A
- Input connector: 6' long/2-prong AC plug
- Output connector: 6' long/2.1mm x 5.5mm female

Part No.	Product No.	Size (L x W x H)	Listing	1	10	50
455611	D571203000	3.6" x 2.6" x 2.3"	UL/CUL	\$11.95	\$10.16	\$7.62

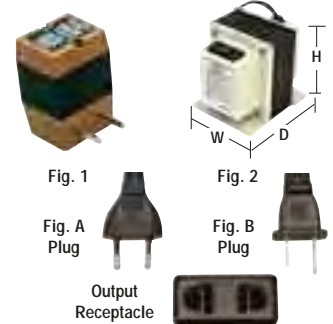


## International Step-Up & Step-Down Transformers

- Wide selection to meet your power requirements

Part Number	Cross Ref. Number *	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Wt. (lbs.)	Pricing		
							H"	W"	D"		1	10	100
99573	AC110V50	1/A	Auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	\$11.19	\$9.33	\$8.79
85016	AC110V300	2/A	Auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	33.55	29.88	23.10
111851	AC110V500	2/A	Auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	50.29	45.35	43.71
142906	AC110V1500	2/A	Auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	99.99	89.99	79.99
99477	AC220V50	1/B	Auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	8.95	8.09	7.25
85008	AC220V300	2/B	Auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	33.55	29.88	26.88
221217	P8689	2/B	Auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	91.75	87.45	81.92
221331	G1S-500	2/B	Isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	102.85	87.42	65.56

\* Manufacturer may vary



## TRIAD Low Frequency Current Sensing Transformer

Designed to monitor in low frequency applications. May be used to monitor current from 0.1A to 30A @ frequencies from 50Hz to 400Hz.

- Turns ratio: primary to sense – 1:500
- Hi-pot: 500V
- Typical output: 110mV/amp
- Suggested burden resistor: 60Ω
- Constructed with UL recognized materials



Part No.	Product No.	Sense DCR	Primary DCR	1	10	100
627591	CSE187L	21Ω max.	250μΩ max.	\$2.51	\$2.04	\$1.93

## TRIAD Current Sensing Transformers

- Frequency range: 20kHz – 200kHz
- UL rated 130°C materials
- Primary is inserted through hole in casing
- Rated primary current renders approximately 40°C temp. rise
- Arrow side of primary conductor has same polarity as pin #1



Part No.	Product No.	ET Vµsec Ref. 20kHz	Turns Count	Min. Ind. (mH)	DCR Max. (Ω)	Primary Arms	1	10	25
627621	CST306-1A	500	20	3.5	0.34	35	\$3.99	\$3.26	\$2.90
627647	CST306-2T	1000	100CT*	14	1.55	25	4.69	4.44	3.11

\*CT = center tap

Blue Part No. = Limited Quantity Available

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Current Sensing Transformer

- Inductance: 5mH
- Turns: 60
- Sensitivity current ( $I_{in}$ ): 1A
- Max. current: 300mA
- Freq. range: 10-50 kHz
- Sensitivity voltage ( $V_{out}$ ): 1V
- Terminating resistor: 50Ω
- Size: 0.7"W x 0.46"D x 0.8"H



**Quantity SAVE**

Part No.	Cross Ref. No.	1	10	100
164718	MTC30101	\$2.15	\$1.83	<b>\$1.37</b>

## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



**Quantity SAVE**

Part No.	Size (OutDia. x InDia. x L)	1	10	100
218174	.64" x .20" x 1.15"	\$ .99	\$ .89	\$ .79
217841	.78" x .34" x 1.40"	1.45	1.29	1.15
318705	.82" x .45" x 1.42"	1.18	.99	.77

## Square

Part No.	Size (L" x W" x H")	1	10	100
421681	1.30 x .70 x .77 (black)	\$1.85	\$1.57	<b>\$1.18</b>

## 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 and 109112 (disconnect .25" solderless terminals), pg 144
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- One-year warranty



**Includes:** 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149324	320VA variable	\$54.99	\$49.99	\$44.99

## 120VAC to 120VAC Isolation Transformer

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5" cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.



**Quantity SAVE**

Part No.	Cross Ref. No.	1	10	100
181315	ITR300	\$52.89	\$44.96	<b>\$33.72</b>

More products available online at [www.Jameco.com](http://www.Jameco.com)

## 110/220VAC Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/ European output plugs
- Lighted on/off power switch



121276

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V (P/N 10401)	9.4 x 6.5 x 7.7	14.8
152582	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121276	500VA trans.	\$95.94	\$83.94	\$75.54
129008	1000VA trans.	189.69	161.24	120.93
152582	2000VA trans.	209.89	178.42	134.08

## 550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
- One-year warranty



Part No.	Description	1	10	50
152937	550VA variable	\$71.99	\$67.99	\$64.99

## 115VAC and 115/230VAC Power Transformers

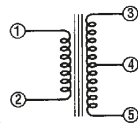
Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz



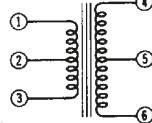
115VAC  
50-60Hz

Fig. 1



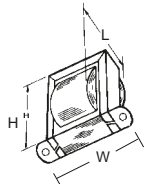
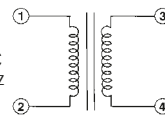
115/230VAC  
50-60Hz

Fig. 2



115VAC  
50-60Hz

Fig. 3



	Cross	Triad	Primary			Secondary					Lead		Dimensions			Wt.	Pricing		
Part No.	Ref. No.	Cross#	Color Code			VA	Voltage		Color Code		Type	Fig.	L"	W"	H"	(lbs.)	1	10	100
102162	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.84	2.40	1.67	0.8	\$9.45	\$8.01	\$6.01
105524	XFR0910	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.82	2.43	1.67	0.7	8.35	7.10	5.32
221399	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	3	1.89	2.75	1.99	1.3	9.15	7.78	5.84
29226	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.41	2.79	1.99	1.5	13.29	11.99	10.66
102155	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	13.15	11.27	8.39
149770	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	3.20	2.25	2.2	12.95	11.69	10.49
102121	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.21	2.26	2.7	17.55	15.84	14.22
105532	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.20	2.81	1.99	1.2	9.19	8.28	7.03
149957	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.25	3.15	2.71	1.8	9.59	8.49	7.45
221382	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.80	1.97	0.6	8.25	7.00	5.25
102112	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.41	2.80	1.99	1.5	10.75	9.14	6.86
1221373	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.44	3.60	2.23	2.3	12.45	10.58	7.94
112513	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	2.33	3.16	2.28	1.8	13.95	12.60	11.32
221365	P-8663	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	1	2.81	2.94	4.00	4.0	20.95	19.72	16.52
221410	P-8666	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	1	4.63	3.75	4.63	11.2	59.55	53.95	44.95
99654	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	3.22	2.30	2.5	14.55	12.37	9.28
102104	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	3.22	2.26	2.8	17.59	15.82	14.24
149796	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	3.22	2.26	2.3	13.95	12.85	9.64

\* Solder terminals

\* Center tap

# Triad cross is for reference only

Blue Part No. = Limited Quantity Available



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If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 246.



## Chassis Mount — Quick Pack

- Hi-pot tested at 2,500V<sub>RMS</sub>
- Terminal size: 0.187" x 0.021"
- Mounting hole size: 3/16" • CT = center tap

### Single Primary = 115V

Part No.	Prod. No.	Circuit	Pwr. (W)	Output	Dimensions (L" x W" x H")	Pricing		
						1	10	100
628771	F4-24	B	6	24VCT @ 0.25A	2.38 x 1.25 x 1.38	\$7.05	\$6.30	\$5.59
629061	F6-120	C	30	120VCT @ 0.25A	3.25 x 1.69 x 1.94	12.25	9.10	8.32
629132	F7-12	C	56	12.6VCT @ 4A	3.69 x 1.81 x 2.25	14.79	12.66	11.57
629167	F7-24	C	56	24VCT @ 2.4A	3.69 x 1.81 x 2.25	14.75	13.04	11.57
618687	F8-16	E	100	16VCT @ 6.25A	4.03 x 2.25 x 2.56	21.19	18.75	16.81
618708	F8-24	C	100	24VCT @ 4A	4.03 x 2.25 x 2.56	21.25	18.75	16.81
618716	F8-36	C	100	36VCT @ 2.8A	4.03 x 2.25 x 2.56	21.19	18.75	16.81

### Dual Primary = 115/230V

Part No.	Prod. No.	Circuit	Pwr. (W)	Output	Dimensions (L" x W" x H")	Pricing		
						1	10	100
629191	FD4-12	D	6	12.6VCT @ 0.5A	2.38 x 1.25 x 1.38	\$8.59	\$7.68	\$6.82
618783	FD8-28	E	100	28VCT @ 3.6A	4.03 x 2.25 x 2.56	21.65	20.14	17.73

## Chassis Mount — Control

- Hi-pot tested at 1,500V<sub>RMS</sub> • Terminal: solder lugs
- Secondaries may be connected in series or parallel for expanded voltage and current ranges
- Commonly utilized in various electronics, electromagnetic, & electrical control applications

Part No.	Prod. No.	Pwr. (W)	Secondary		Case Type	Dimensions (H" x W" x D")	Pricing		
			Series	Parallel			1	10	100
618353	F-109U	192	24VCT @ 8A	12V @ 16A	U	4.29 x 3.44 x 3.56	\$49.79	\$44.00	\$39.47

## Chassis Mount — Single Secondary

- CT = center tap • Connectors: leads
- Mounting holes: X type case – 3/16"
- U type case – 13/64" x 3/8"

Lower \$\$\$

Part No.	Prod. No.	Primary Voltage	Secondary Voltage	Case Type	Dimensions (H" x W" x D")	Pricing		
						1	10	100
627719	F-113X	115	12V @ 0.15A	X	1.38 x 2.38 x 1.38	\$8.19	\$6.26	\$5.56
628287	F-225X	115	12.6V @ 4A	X	2.63 x 4.00 x 2.06	15.79	13.66	12.99
618370	F-182U	115	12.6VCT @ 6A	U	3.38 x 2.81 x 2.44	41.79	35.09	28.39
618548	F-260U	115	24VCT @ 6A	U	3.25 x 3.13 x 3.25	38.85	29.53	26.67
628720	F-40X	115	26.8VCT @ 1A	X	1.81 x 3.31 x 2.00	10.19	8.88	7.99

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement



209015

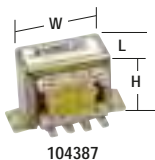
## Split-Bobbin Power Transformers

Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$6.29	\$5.35	\$4.02
102534	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	9.55	8.60	7.73
102593	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	12.99	11.75	8.12
148559	XFR3603SB	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.46	0.7	7.99	6.99	6.49

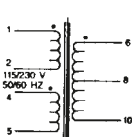
\* Triad cross is for reference only

## Quick-Connect Power Transformers

- Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Input voltage: 115/230VAC, 50-60Hz • Terminals: quick-connect, solder



104387



Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	10	100
104387	XFR1225Q	FD612	115/230VAC	12.6VCT @ 2.5A	31.5	0.141"	2.21	2.32	2.00	1.3	\$9.29	\$7.90	\$5.92
104409	XFR1635Q	FD716†	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	17.79	15.15	12.12
101865	XFR2424Q	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	14.99	12.59	10.99
104417	XFR3615Q	FD736	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	11.69	10.50	7.88

† Terminal solder lug are on same side

\* Triad cross is for reference only

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**Quantity SAVE**

• Frequency: 50/60Hz

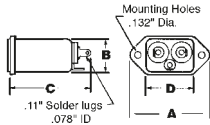


Fig. 1 (Solder Terminals)

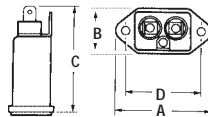


Fig. 2 (Fast-on Terminals)



Fig. 3



Fig. 4

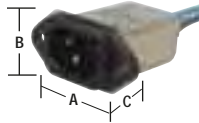


Fig. 5



Fig. 6

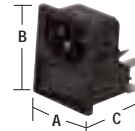


Fig. 7



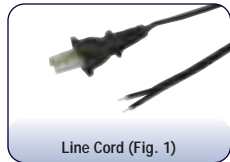
Fig. 8

Part No.	Cross Ref. No.	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (inches)				Pricing			
									A	B	C	D	1	10	100	500
150615	03AC1	Power entry filter, straight (flanged)	1	3	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.58	1.58	\$5.95	\$5.36	\$4.28	\$3.21
667438	YB03A1-A	Power entry filter, straight (flanged)	2	3	250	Fast-on	UL/CSA/VDE	0.26"	2.05	0.98	2.15	1.58	4.95	4.29	4.19	4.08
16652	JR101	AC power inlet (male) flanged solder	3	10	250	Fast-on	UL/CSA/VDE	0.187"	1.96	0.89	1.07	1.58	1.17	1.05	.94	.85

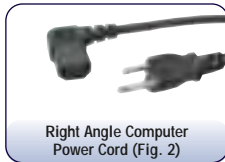
## Other Manufacturers — Great Deals

165016	SUP-J15G-E-2	Power entry filter, straight (flanged)	1	15	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.18	1.58	\$5.95	\$5.35	\$4.85	\$4.05
395647	2VK1	Power entry filter	4	2	250	Fast-on	UL/CSA/VDE	0.25"	2.81	0.91	3.10	N/A	6.95	6.26	5.01	3.74
210913	01GEEW3E	Power entry filter, straight (flanged)	5	1	250	Wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	5.36	4.28	3.21
147109	42R02	AC power inlet (male) snap-in	6	15	250	Fast-on	UL/CSA	0.25"	1.22	0.94	1.13	N/A	.65	.59	.468	.451
184903	42R363152IOU	AC power inlet (male) w/ switch (snap-in)	7	10	250	Fast-on	UL/CSA/VDE	0.25"	1.30	1.58	1.42	N/A	1.95	1.76	1.40	1.17
265527	WS-044	AC power inlet (male) w/ fuse chamber (snap-in)	8	10	250	Fast-on	UL	0.185"	1.73	1.29	0.77	1.42	1.79	1.61	1.39	1.10

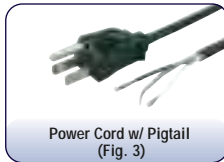
† Includes spare fuse holder – fuse type 5mm x 20mm (250V)



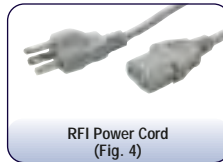
Line Cord (Fig. 1)



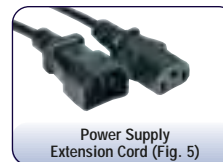
Right Angle Computer Power Cord (Fig. 2)



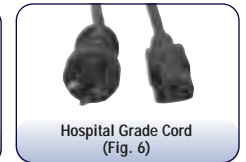
Power Cord w/ Pigtail (Fig. 3)



RFI Power Cord (Fig. 4)



Power Supply Extension Cord (Fig. 5)



Hospital Grade Cord (Fig. 6)



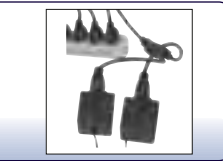
Monitor Power Adapter Cord (Fig. 7)



Power Strip Saver (Fig. 8)



Power Strip Saver II (Fig. 9)



Power Cord w/Pigtail (Fig. 10)



"Y" Twin End Power Cord (Fig. 11)



Detachable Power Cord Shielded PVC (Fig. 12)



**Quantity SAVE**



## Jameco ValuePro™ Power Cords



Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor power cord with pigtail

124434	ST008	.16	1	6'	Black	18/2	SPT-2	\$1.43	\$1.35	\$1.28	\$1.22
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### 3-conductor right-angle power supply cord

117356	8120-6177	.41	2	6'	Gray	18/3	SVT	\$3.95	\$3.56	\$2.84	\$2.13
38077	17250R	.54	2	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55

### 3-conductor power cord with pigtail

38009	17237	.31	3	6'	Gray	18/3	SVT	\$2.89	\$2.58	\$2.07	\$1.55
37997	17236	.30	3	6'	Black	18/3	SVT	3.35	2.79	2.54	2.39
159410	17405B	.37	3	6'	Black	18/3	SJT	3.11	2.58	2.34	2.15
102007	17535B	.49	3	10'	Black	18/3	SVT	4.15	3.85	3.33	3.17
196286	LL40378	.80	3	10'	Black	16/3	SJT	4.19	3.77	3.40	2.91
100272	17629B	.88	3	9'	Black	14/3	SJT	5.89	5.30	4.91	4.66

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 3-conductor power supply cord (shielded)

213874	17660BG	.40	4	6'	Beige	18/3	SVT	\$3.59	\$3.25	\$2.95	\$2.65
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### 3-conductor power supply cord

103747	17248	.34	4	6'	Gray	18/3	SVT	\$4.65	\$4.17	\$3.54	\$2.66
38041	17249	.37	4	6'	Beige	18/3	SVT	3.35	2.83	2.74	2.64
38050	17250	.36	4	6'	Black	18/3	SVT	4.15	3.75	3.43	3.09
132118	17500	.44	4	6'	Black	18/3	SJT	4.49	4.04	3.65	3.29
117584	17502	.37	4	8'	Gray	18/3	SVT	7.05	6.32	5.05	3.79
171096	17758	.60	4	8'	Black	18/3	SJT	4.95	4.49	4.09	3.69
102024	17501V	.55	4	10'	Black	18/3	SVT	4.74	4.07	3.71	3.35
163361	6952299	.33	4	14'	Black	18/3	SJT	5.39	4.85	3.88	2.91

### 3-conductor computer power supply extension cord

28468	PEC	.36	5	6'	Black	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.10
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### 3-conductor power cord w/ hospital grade male (green dot)

132011	17006G	.82	6	10'	Gray	16/3	SJT	\$9.95	\$8.96	\$8.05	\$7.25
115078	17006	.84	6	10'	Black	16/3	SJT	9.95	8.98	8.05	7.27

### 3-conductor computer monitor power adapter cord

177448	MPC1	.16	7	1'	Black	18/3	SVT	\$3.55	\$3.20	\$2.55	\$1.91
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**More Power Cords on Next Page**

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service † European standard insulation color code

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend			
New	Sale	Lower\$	QtySave

# Jameco ValuePro™ Power Cords

Part No.	Cross Ref. No.	Wt.	Fig. (p.201)	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100
<b>3-conductor power cord (power strip saver)</b>											
199778	PSS-1	.16	8	1'	Black	18/3	SVT	\$2.05	\$1.86	\$1.67	\$1.50
<b>3-conductor power cord ("Y" type power strip saver)</b>											
208347	GPR-2006	.38	9	2'	Black	18/3	SVT	\$5.95	\$5.63	\$5.42	\$5.15
<b>Plug Detail – Industry Standard Designations</b>											
<div> <div>290B</div> </div> <div> <div>910</div> </div> <div> <div>386A/386E</div> </div> <div> <div>150</div> </div>											
Part No.	Volex X-Ref.	Fig. (p.201)	Plug Detail	Length	AWG (Stranding)	Cord Type*	Pricing				
							1	10	50	100	
<b>3-conductor power cord w/ pigtail, NEMA 5-15P plug, PVC, black</b>											
38025	17238	3	—	8'	18/3	SVT	\$2.69	\$2.51	\$2.29	\$1.71	
339688	40407	3	—	8'	18/3(16x30)	SJT	2.15	1.83	1.56	1.54	
<b>3-conductor power cord w/ pigtail, NEMA 5-15P plug, shielded, black</b>											
166925	17516	3	—	6'7"	14/3	SJT	\$4.75	\$4.28	\$3.84	\$3.46	
<b>3-conductor power cord w/ pigtail, NEMA 5-15P plug, unshielded, black</b>											
339733	17534	3	290B	6'7"	18/3(41x34)	SVT	\$2.35	\$1.74	\$1.65	\$1.60	
<b>3-conductor power cord w/ pigtail, NEMA, PVC, unshielded, gray</b>											
173809	17405	3	—	6'	18/3	SJT	\$2.35	\$2.12	\$1.70	\$1.28	
<b>3-conductor power cord w/ pigtail, unshielded, black</b>											
340056	17537	3	910	9'10"	18/3(41x34)	SJT	\$3.19	\$2.71	\$2.30	\$1.96	
340072	17521	10	386E	9'10"	16/3(26x30)	SJT	3.29	2.80	2.38	2.27	
<b>3-conductor power cord, "Y" twin end, black</b>											
340566	17268A	11	150/250A	4'	18/3(41x34)	SJT	\$7.85	\$5.84	\$5.55	\$5.29	
<b>3-conductor right angle detachable power cord, shielded, PVC, black</b>											
173252	17745	2	—	6'	18/3	SVT	\$4.75	\$4.27	\$3.42	\$2.57	
<b>3-conductor right angle detachable power cord, unshielded, PVC, black</b>											
177384	17507	2	—	10'	18/3	SJT	\$4.75	\$4.31	\$3.83	\$3.23	
<b>3-conductor detachable power cord, shielded, PVC, black</b>											
161761	17742	12	290B/386A	6'	18/3	SVT	\$4.74	\$4.28	\$3.42	\$2.57	
159361	17602	12	—	6'	16/3	SJT	3.79	3.41	2.73	2.05	
<b>3-conductor detachable power cord, unshielded, PVC, black</b>											
340291	17001A	12	290B/386E	3.0'	16/3(26x30)	SJT	\$3.69	\$2.72	\$2.59	\$2.50	
125541	17504	12	—	6'7"	14/3	SJT	6.75	6.08	5.47	4.26	

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

## General Purpose Power Cords

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

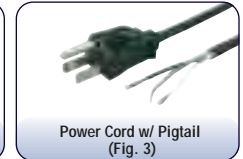
- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C



Configuration "8" Laptop Power Cord (Fig. 1)



Configuration "D" Laptop Power Cord (Fig. 2)



Power Cord w/ Pigtail (Fig. 3)



RFI Power Cord (Fig. 4)



Power Supply Extension Cord (Fig. 5)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor "8" style power cord for laptops and power supplies

189587	VW-1	.30	1	6'	Black	18/2	SPT-2	\$2.49	\$2.05	\$1.99	\$1.89
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### 2-conductor "D" style power cord for laptops and power supplies

200791	LL114039	.30	2	6'	Black	18/2	SPT-2	\$2.39	\$2.15	\$1.72	\$1.29
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### 3-conductor power cord with pigtail

1585522	—	.56	3	6'	Black	14/3	SJT	\$3.95	\$3.59	\$3.19	\$2.85
279662	32V86S	.32	3	6'	Black	18/3	SVT	3.59	3.14	2.85	2.79
1585514	CPB-FL-08	.56	3	8'	Black	18/3	SJT	3.49	3.15	2.85	2.49

### 3-conductor power supply cord (shielded)

1537459	LL6415	.40	4	9'10"	Beige	18/3	SJT	\$3.95	\$3.39	\$3.09	\$2.79
190625	37805	.75	4	10'	Beige	18/3	SJT	4.49	3.95	3.49	2.59

### 3-conductor power supply cord

1585637	171096	.60	4	8'	Black	18/3	SVT	\$3.49	\$3.15	\$2.75	\$2.29
1537230	LL34877	.72	4	8'	Black	16/3	SJT	4.55	4.09	3.69	3.35

### 3-conductor computer power supply extension cord

420224	10W1-02212	.53	5	12'	Black	18/3	SVT	\$3.89	\$3.02	\$2.87	\$2.73
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### 3-conductor power cord w/hospital grade male (green dot)

1537563	17510A	.82	3	10'	Gray	14/3	SJT	\$9.95	\$8.95	\$7.95	\$6.95
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## International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- BSI: British Standard Institution
- Voltage rating: 300V
- Cord color: black
- Cord type: H05VVf

### European Agency Approvals

Germany	VDE		France	LCIE	
Austria	DVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

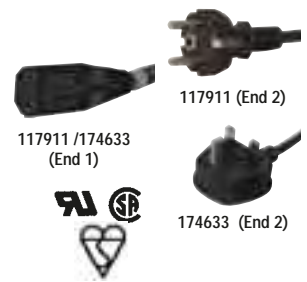


Fig. 1

Part No.	Cross Ref. No.*	Country	Agency Approvals	Cord Length	Conductors	Pricing			
						1	10	100	250
117911	PCVDE-6B	Europe	All in Fig. 1	6 ft.	3/0.75mm²	\$6.79	\$6.14	\$5.52	\$4.65
174633	21071H5182	UK/Ireland	BSI	8 ft.	3/1.0mm²	7.79	7.01	6.32	5.59

\* Manufacturer may vary

## Why Fight The Power?

Nothing is worse than missing a power cord when you're doing field work! No one cares why; they just don't understand.

Take five minutes to protect yourself from getting into this situation! Be prepared. Stock your field kit with the plug and receptacle combinations you might need. Your den mother will be proud!

**Practical Practices**  
Money Saving Tips for the Engineer



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## Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty



264014



264031



264049



264057



264065



264073

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	\$9.99	\$8.45
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	15.69	14.52
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	16.99	15.49
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	17.49	15.59
318924	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	18.65	16.89
264049	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick connect 0.187"	3.5 x 2.8 x 4.0	3.8	18.15	16.73
264057	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	18.15	16.21
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	36.29	33.87
264073	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	38.59	33.49
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut & bolt	7.6 x 5.1 x 6.3	27.6	58.99	56.99

## Eveready® Energizer® Alkaline Batteries

198731



198707

198715



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- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications

Part No.	Size	1	10
198731	9-volt	\$1.89	\$1.81

- Priced per battery. Sold in multiples of 4.

Part No.	Size	4	40	100
198707	AA	\$6.66	\$5.59	\$5.53
198715	AAA	.485	.458	.412

## Long-Lasting Rechargeable NiMH Batteries

Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCd batteries, so they're ideal for power-hungry devices like digital cameras and camcorders.

- Batteries come prepackaged



231095

231087

231124

231108

\* Priced per battery

Part No.	Description	1	8	24
231095	AAA, 600mAh (2/pk) *	\$3.99	\$3.80	\$3.61
231087	AA, 1600mAh (4/pk) *	3.49	3.13	2.83
231124	D, 9000mAh (2/pk) *	11.19	11.10	11.00
231108	"9V", 150mAh	8.39	7.65	6.95

## Silver Oxide, Zinc Chloride & Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

### Silver Oxide

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
140783	357	1	Button	1.55	1600	0.454"Dia.	\$1.75	\$1.49	\$1.25



Fig. 1

### Zinc Chloride

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
151095	GF6F22	2	9V	9	300	1.7"L x 1.0"W x 0.67"Dia.	\$1.25	\$0.99	\$0.79



Fig. 2

### Alkaline

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
150965	Rayovac 840	3	—	4.5	600	1.14"L x 0.73"W x 0.96"H	\$9.95	\$8.99	\$8.06
198791	MN1604	2	9V	9	500	1.7"L x 1.0"W x 0.67"H	2.85	2.55	2.29



Fig. 3

## Automatic Battery Chargers

- Safely charge and maintain lead acid batteries without supervision
- High frequency MOSFET switching design
- Multi-stage charging circuit prevents batteries from overcharging
- Extends battery life
- Analog amp meter
- Safe for gel cell batteries
- Input voltage: 98 to 132VAC @ 50/60Hz
- Output banks: 3
- Short circuit, overload, and reverse polarity protection

Part No.	Product No.	Output Volt.	DC @ Current	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
673416	SEC-1215A	13.5V @ 15A		8.5 x 8.4 x 3.3	4.8	\$141.55	\$134.49	\$127.75
673424	SEC-1230A	13.5V @ 30A		10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49
673432	SEC-2415A	27V @ 15A		10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49



673416

## "9-Volt" Battery Snaps and Clip

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225" • Female inner dia. = 0.215"



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Fig.	Description	Dimensions (in.)			Pricing			
			L	W	H	1	10	100	1000
11280	1	3", 26 AWG, 6 prong battery snap	1.0	.50	—	\$ .30	\$ .264	\$ .228	\$ .192
105794	2	Battery holder clip	.63	.71	1.2	.28	.23	.16	.14
109154	3	6", 26 AWG, 6 prong battery snap	1.0	.50	—	.21	.17	.15	.137
101470	3	10", 26 AWG, 6 prong battery snap	1.0	.50	—	.35	.30	.252	.168
216452	4	6", 26 AWG, 6 prong battery snap	1.0	.50	—	.34	.30	.20	.18

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Save 10% or more on most batteries!

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/ descramblers and remotes.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

### Lithium & Lithium Ion

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
618011	CR1/3N	1	—	3	160	Photocell	0.43"H x 0.46"Dia.	\$2.65	\$2.50	\$1.88
240258	CR123A	2	—	3	1300	Photo/computer	1.36"L x 0.65"Dia.	2.95	2.70	2.02
33371	TL5101P	3	1/2AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	5.79	5.27	4.45
33398	TL5104P	4	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	6.25	5.89	5.53
146114	TL2100S	5	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.29	5.65
673627	FBL414/F90	—	Coin cell	2	1	Vertical PC mount	0.19"Dia. x 0.07"Thick	1.49	1.29	.99
11789	CR2325	6	Coin cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Thick	1.65	1.47	1.25
14162	CR2032	—	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.25	1.12	.94
1585451	DL2032	6	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.15	1.12	1.09
689071	DL2450	6	Coin cell	3	600	Clock/memory/watch	0.95"Dia. x 0.18"Thick	2.95	2.59	2.39
673635	CA1/2AA	—	1/2 AA	3	950	Barrel with leads	1.0"L x 0.58"Dia.	1.79	1.59	1.35
673601	NBL621/F9DE	—	Coin cell	2	4	Vertical PC mount	0.27"Dia. x 0.10"Thick	1.79	1.59	1.35
126754	TL5101S	7	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	4.65	4.44	4.17
240266	ER14250	8	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	3.99	3.89	3.81
263898	ER14250	9	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.65	4.37	3.94
240303	ER14505	10	AA	3.6	2400	Consumer tip	2.00"L x 0.55"Dia.	5.45	5.04	4.90
263986	ER26500	—	C	3.6	8500	With axial leads	2.00"L x 1.02"Dia.	11.55	11.11	10.88
240160	ER26500	11	C	3.6	8500	Consumer tip	2.00"L x 1.02"Dia.	11.95	11.50	11.05
240151	ER34615	12	D	3.6	16,500	Consumer tip	2.40"L x 1.34"Dia.	15.05	14.49	13.95
244646	UR18650H1	13	—	3.6	2200	Flat top lithium ion (rechargeable)	2.60"L x 0.71"Dia.	17.55	15.79	14.21

### NiCd – Rechargeable

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261657	AA-700-CT	14	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	\$1.59	\$1.45	\$1.19
244515	AA-1000-CT	14	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.65	2.43	2.33
244531	C-2500-CT	15	C	1.2	2500	Consumer tip	1.90"L x 1.00"Dia.	4.55	4.31	4.11
126720	351FT	16	—	3.6	60	2-lead (pin), barrel	0.72"L x 0.61"Dia.	4.49	4.05	3.65
119116	3/V60R	17	—	3.6	60	3-lead (pin), barrel	0.72"L x 0.61"Dia.	3.35	3.29	3.22
101653	NA101-1	18	—	3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

### NiMH – Rechargeable

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261665	AAA-700FT	19	AAA	1.2	700	Flat top	1.70"L x 0.40"Dia.	\$2.25	\$1.99	\$1.91
244814	AA-1800	20	AA	1.2	1800	Flat top	1.90"L x 0.55"Dia.	2.65	1.99	1.96
244822	AA-1800-CT	21	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	2.55	2.27	2.15
244620	9V-200	22	9V	9	200	Snap	1.94"L x 0.65"Dia.	9.35	8.31	7.47



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22

## Rechargeable Battery Packs

• AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm) • SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm) • D single cell: 2.36"L x 1.26"Dia. (59.9mm x 32.0mm)

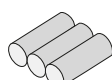


Fig. 1

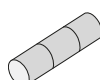


Fig. 2

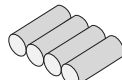


Fig. 3

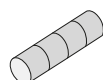


Fig. 4

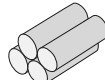


Fig. 5

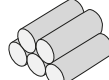


Fig. 6

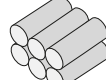


Fig. 7

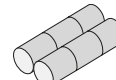


Fig. 8

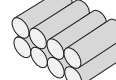


Fig. 9

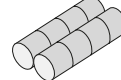


Fig. 10

Part No.	Fig.	Volt	Size	Type	mAh	Connection	1	10	25
299090	1	3.6	AA	NiCd	700	Lead wire	\$7.19	\$6.47	\$5.82
298345	1	3.6	AA	NiCd	1000	Solder tab	7.19	6.47	5.82
299241	1	3.6	AA	NiMH	1800	Lead wire	12.75	11.65	10.33
298679	2	3.6	SC	NiCd	2200	Solder tab	10.95	9.86	8.88
299102	3	4.8	AA	NiCd	1000	Lead wire	9.69	8.72	7.76
299250	3	4.8	AA	NiMH	1800	Lead wire	14.35	13.67	12.31
298652	3	4.8	SC	NiCd	2200	Solder tab	13.89	12.49	11.39
298687	4	4.8	SC	NiCd	2200	Solder tab	13.85	12.45	11.38

Part No.	Fig.	Volt	Size	Type	mAh	Connection	1	10	25
298919	5	4.8	D	NiCd	5000	Solder tab	\$31.85	\$28.66	\$25.79
299372	6	6.0	AA	NiMH	1800	Lead wire	17.69	15.24	13.71
299305	7	7.2	AA	NiMH	1800	Lead wire	18.99	17.18	15.47
299330	8	7.2	AA	NiMH	1800	Lead wire	18.99	17.18	15.47
298732	8	7.2	SC	NiCd	2200	Solder tab	20.69	18.64	16.77
299461	9	9.6	SC	NiCd	2200	Lead wire	28.45	25.68	23.32
299348	10	9.6	AA	NiMH	1800	Lead wire	22.09	19.99	18.05
298741	10	9.6	SC	NiCd	2200	Solder tab	20.35	18.28	16.46



1581775



1581791



1581505



1582364



1581468



1582524



1581476



1581521



1582102

## KEYSTONE

### Coin Cell Battery Retainers

Part No.	Prod. No.	Description	* Minimum order 5 pieces		
			1	5	50
1581775	3000R	12mm single, SMT, for 1216/1220/1225	* .179	.168	
1581783	3002R	20mm single, SMT, for 2016/2020/2025/2032	* .212	.199	
1581791	3003R	20mm single, PC mount, for 2016/2020/2025/2032	* .216	.203	

## KEYSTONE

### Coin Cell Battery Holders

Part No.	Prod. No.	Description	* Minimum order 5 pieces		
			1	5	50
1581505	500R	12mm single, PC mount, for 1216/1220/1225	\$.80	\$.77	\$.73
1581610	1060R	20mm low profile, single, SMT, for 2032	1.02	.95	.89
1581628	1061R	20mm single, SMT, for 2016/2020/2025/2032	1.00	.93	.87
1581636	1065R	20mm compact, vertical single, PC mount	1.33	1.14	1.08
1581644	1066R	20mm single, SMT, for 2025/2032	1.14	1.07	1.00
1581652	1067R	20mm single, SMT, for 2025/2032	1.27	1.14	1.04
1581661	1071R	23mm single, SMT, for 2320/2325/2330	1.05	.98	.92
1582364	1025-7R	24mm single, SMT, for 2430/2477	1.40	1.37	1.33

## KEYSTONE

### Battery Holders

Part No.	Prod. No.	Description	* Minimum order 5 pieces		
			1	5	50
1581468	92R	Single snap-in clip, PC mount A & AA	* \$.131	\$.122	
1581759	1294R	Plastic single cell, PC mount, 9V	1.02	.99	.95
1581767	2103R	Steel single cell, PC mount, 1/2 AA	1.85	1.65	1.49
1582524	2105R	Steel single cell, PC mount, 1/2 A	1.42	1.35	1.30

## KEYSTONE

### Battery Contacts

Part No.	Prod. No.	Description	* Minimum order 5 pieces		
			1	5	50
1581476	204R	Snap-on, leaf, for AAA, AAAA, N	* \$.173	\$.156	
1581484	211R	Spring contact, for A, AA	* .069	.067	
1581521	593R	Horizontal "on-board", male, PC mount, 9V	* .284	.256	
1581548	635R	Horizontal "off-board", male, PC mount, 9V	* .235	.222	
1582102	5201R	Negative spring, solder tab, for A, AA	* .135	.126	

JAMECO ReliaPro


## Battery Holders

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

Quantity SAVE

Part No.	Cross Ref. No.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071	BH-311-2A	1	1-AA	Wires	Single		\$.75	\$.68	\$.54	\$.41
216081	BH-321-2A	2	2-AA	Wires	Single		1.05	.93	.84	.75
216099	BH-321-4A	2	2-AA	Wires	Single	With mounting tabs	.79	.71	.56	.425
216102	SBH-321-2A	3	2-AA	Wires	Single	With cover, no switch	.65	.57	.45	.343
216119	SBH-321-1AS	3	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216136	BH-331-A	4	3-AA	Wires	Single		1.49	1.33	1.21	1.10
216144	SBH-331-AS	5	3-AA	Wires	Single	With cover and switch	1.09	.87	.78	.59
216151	BH-341-2A	6	4-AA	Wires	Single		1.02	.81	.75	.56
105858	* R	7	4-AA	Wires	Single	Wires with connector	.78	.71	.68	.60
216178	BH-343-1A	8	4-AA	Wires	Dual		.69	.66	.62	.55
216186	SBH-341-1AS	9	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216223	BH-364-A	10	6-AA	Wires	Single		.85	.71	.65	.50
216231	BH-363-B	11	6-AA	Snaps	Dual		.99	.89	.71	.53
216240	BH-383-A	12	8-AA	Wires	Dual		1.19	1.05	.99	.74
216258	BH-382-B	13	8-AA	Snaps	Dual		1.19	.99	.89	.85
216267	BH-383-B	12	8-AA	Snaps	Dual		1.69	1.40	1.22	.91
216283	BH-421-1A	2	2-AAA	Wires	Single		.69	.59	.54	.49
216303	BH-431-1A	4	3-AAA	Wires	Single		.83	.75	.68	.59
216339	SBH-441-AS	9	4-AAA	Wires	Single	With cover and switch	1.55	1.36	1.10	.83
216362	BH-242-1A	14	4-C	Wires	Single		1.39	1.25	1.00	.75
216371	BH-111-1A	1	1-D	Wires	Single		.69	.62	.496	.375
216389	BH-121-1A	2	2-D	Wires	Single		1.19	1.07	.86	.65
216401	BH-142-A	14	4-D	Wires	Single		1.06	.83	.78	.67
216419	BH-143-1A	6	4-D	Wires	Single		1.15	.89	.81	.74
216427	BH-9V-A	15	1-9V	Wires	Single		.95	.81	.76	.70
38543	2S2325	16	1-CR2354 or 2-CR2325	PC Mount	Coin cell		.96	.86	.54	.46
355434	17002-00603	17	1-CR2032	PC Mount	Coin cell		.63	.57	.456	.345
Other Manufacturers — Great Deals										
236996	103	16	1-CR2032	PC Mount	Coin cell		\$1.03	\$.86	\$.71	\$.64

\* Battery holder used in many personal computers

 Blue Part No. = Limited Quantity Available



Batteries

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visit our website today.

# Serial & Parallel LCD Displays



RoHS Compliant Product  
RoHS Also Available



Color Code Legend			
New	Sale	Lower\$	QtySave



Scott Edwards Electronics, Inc.

## Serial LCD Displays

• For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).

• One year warranty

### Matrix Orbital GLK12232-25-SM



281391 (serial)

### Scott Edwards ILM-216L



150990 (serial)

### Ocular OM4021-WGS-01

• 40 x 2 characters • 6.0" x 0.6" display

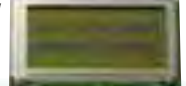


277325 (parallel)

More LCD Displays at  
[www.Jameco.com/Prod/LCDDisplays](http://www.Jameco.com/Prod/LCDDisplays)

### Hantronix HDM64GS12L-4-N31S

• 128 x 64 characters  
• 2.4" x 1.3" display



658953 (parallel)

Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
										1	10	25
174166	Matrix Orbital	LK162-12	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	\$49.59	\$48.99	\$48.49
693708	Matrix Orbital	LK162-12-GW	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,12,13	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.59
693783	Matrix Orbital	LK162-12-IY	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,14	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
1536878	Matrix Orbital	LK162-12-R	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
281332	Matrix Orbital	LK162-12-WB	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,13,16	3.2 x 1.4 x 1.1	2.5 x 0.7	49.59	48.99	48.49
693986	Matrix Orbital	LK202-25-IY	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,14	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
693978	Matrix Orbital	LK202-25-GW	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,12	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
693994	Matrix Orbital	LK202-25-R	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10,15	4.6 x 1.5 x 1.1	3.1 x 0.7	58.99	56.99	53.49
281341	Matrix Orbital	LK202-25-WB	20 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,7,10	4.6 x 1.5 x 1.1	3.2 x 0.7	58.99	56.99	53.49
150957	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V @ 10mA	Y	1,3,4,6	3.9 x 2.4 x 0.7	3.0 x 1.0	59.95	59.45	59.00
157323	Matrix Orbital	LK204-25	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Y	1,3,4,6	3.7 x 2.4 x 1.1	3.0 x 1.0	68.99	66.99	65.59
694170	Matrix Orbital	LK204-25-IY	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,14	3.9 x 2.4 x 1.2	3.0 x 1.0	68.99	66.99	65.59
694188	Matrix Orbital	LK204-25-WB	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Y	1,7,10,16	3.9 x 2.4 x 1.2	3.0 x 1.0	68.99	66.99	65.59
281391	Matrix Orbital	GLK12232-25-SM	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 250mA	Y	1,8	3.4 x 1.4 x 0.5	2.4 x 0.7	68.99	67.99	65.99
694356	Matrix Orbital	GLK12232-25-SM-WB	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 22mA	Y	1,8,17	3.4 x 1.4 x 0.5	2.4 x 0.7	68.99	67.99	66.09
281404	Matrix Orbital	GLK12232-25-WBL	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 20mA	Y	1,8	3.9 x 2.4 x 0.4	3.3 x 1.4	74.99	73.99	71.19
694364	Matrix Orbital	GLK12232-25-WBL-WB	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 18mA	Y	1,8,17	3.9 x 2.4 x 0.4	2.7 x 0.8	77.99	75.99	73.39
174182	Matrix Orbital	GLC24064	240 x 64 w/ graphics	1200 - 19,200	5.0V @ 31mA	Y	1,3,6	7.1 x 2.6 x 0.7	5.2 x 1.5	165.99	161.69	157.49
694372	Matrix Orbital	GLK24064-25-GW	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	Y	1,9,12	7.1 x 2.6 x 0.7	5.0 x 1.3	168.99	160.99	153.99
694381	Matrix Orbital	GLK24064-25-WB	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	Y	1,9,16	7.1 x 2.6 x 0.7	5.0 x 1.3	268.99	160.99	153.99
150990	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V @ 5mA	Y	1,2,5	3.2 x 2.0 x 0.5	2.8 x 1.0	48.95	44.09	39.99
133129	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V-5.5V @ 3mA	N	1,2,11	3.1 x 1.4 x 0.7	2.8 x 1.0	59.95	53.99	48.99

\* 1. For a power supply, Jameco recommends P/N 164101, pg 195

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)

3. Manual included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature

7. Connect 127 modules on the same 2-wire interface

8. 128 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack\* accepts RS232, CMOS or TTL signal

12. Grey text/white background

13. Built-In font provision for up to 8-user define characters, software controlled contrast and brightness, use of up to 12-key with 10-key buffer, horizontal or vertical bar graphs

14. Inverse yellow

15. Inverse red

16. White text/blue background

17. Color of illumination: white/ice blue



## Parallel LCD Displays



• For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).

• 90-day Jameco warranty

Quantity SAVE

Lower \$\$\$

Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes†	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
											1	10	25
644025	Epson	EA-D16015AR	16 x 1	5 x 7	8-bit	5.0V @ 1.0mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	\$7.15	\$6.04	\$4.53
171716	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Y	2, 4	3.4 x 1.2 x 0.5	2.5 x 0.7	14.15	13.49	12.78
658881	Hantronix	HDM716216H-4-HOAF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	4	4.8 x 1.7 x 0.4	3.9 x 0.9	11.95	10.49	7.87
658890	Hantronix	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	4	3.3 x 1.7 x 0.4	2.4 x 0.6	11.95	10.49	8.95
618003	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	12.55	10.67	8.00
658988	Hantronix	HDM716216L-7-8CO	16 x 2	5 x 7	8-bit	5.0V @ 2.0mA	Y	4	4.8 x 1.7 x 0.6	3.9 x 0.9	16.95	14.95	11.95
365982	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Y	—	3.3 x 1.2 x 0.5	2.4 x 0.63	12.69	10.79	9.45
1585979	Tinsharp	KEST1602A-08	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	Y	—	3.1 x 1.4 x 0.4	2.5 x 0.40	13.95	13.49	11.95
210761	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	N	1, 4	3.4 x 2.4 x 0.3	2.4 x 1.0	22.95	19.95	18.69
658970	Hantronix	HDM20216L-1-G30F	20 x 2	5 x 7	8-bit	5.0V @ 2.4mA	Y	4	4.6 x 1.5 x 0.6	3.4 x 0.7	18.95	16.95	14.49
171724	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Y	2, 4	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
658873	Hantronix	HDM20416H-300	20 x 4	5 x 7	8-bit	5.0V @ 2.2mA	N	4	3.9 x 2.7 x 0.4	3.7 x 0.6	24.95	22.49	18.95
320101	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	4	4.6 x 1.4 x 0.4	3.7 x 0.7	15.59	13.25	9.94
320039	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	4	7.2 x 1.2 x 0.3	6.0 x 0.6	21.69	20.17	16.84
277325	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V @ 2.5mA	Y	4	7.2 x 1.3 x 0.6	6.0 x 0.6	22.45	19.13	14.34
658937	Hantronix	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Y	4	7.2 x 1.3 x 0.6	6.1 x 0.6	24.95	22.45	19.49
652332	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	N	—	7.5 x 2.1 x 0.4	5.5 x 0.9	29.95	26.95	20.21
658953	Hantronix	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Y	5	3.0 x 2.1 x 0.4	2.4 x 1.3	27.95	24.95	21.49

†1. Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent; 2. Controller KS0066U or equivalent; 3. Column driver: KS0063B; 4. For a power supply Jameco recommends P/N 164101, pg 195;

5. Dot Graphic LCD display

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## 0.6" High 3½- & 4½-Digit LCD Digital Panel Meters



- Input ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, pg 203)
- Input impedance: >100MΩ
- Automatic polarity indication
- Size: 2.7"W x 1.7"H

**146835: Backlit display**      **Includes: Bezel**

Part No.	Cross Ref. No.	Digits	1	10	25
108388	PM-428	3½	\$14.39	\$13.27	\$12.16
175951	PM-128	3½	12.95	11.95	10.95
146835	PM-188BL	3½	19.99	18.99	17.99
123140	PM-328	4½	30.99	27.69	24.96

**velleman**

## Analog Panel Meters

- Includes mounting hardware
- Size: A: 2.4"W x 1.8"H x 1.3"D; B: 2.8"W x 2.4"H x 1.4"D
- 316507: Includes current shunt

**Lower \$\$\$**

Part No.	Product No.	Range	Size	1	4
316603	AVM6015	0 - 15VDC	A	\$10.29	\$8.71
316671	AVM7015	0 - 15VDC	B	8.79	7.49
316638	AVM6030	0 - 30VDC	A	8.79	7.49
316654	AVM7030	0 - 30VDC	B	9.95	8.46
316718	AVM60150	0 - 150VAC	A	8.79	7.49
316785	AVM60300	0 - 300VAC	A	8.79	7.49
315301	AIM60005	0 - 50µA	A	9.65	8.16
316523	AIM6050	0 - 50mA	A	8.79	7.49
316486	AIM60100	0 - 100mA	A	8.99	7.65
316558	AIM60500	0 - 500mA	A	9.69	8.26
316566	AIM60500	0 - 5A	A	9.75	8.31
316582	AIM705000	0 - 5A	B	8.79	7.49
316494	AIM6010A	0 - 10A	A	9.39	8.01
316507	AIM6030A	0 - 30A	A	10.55	8.99



## Processors, Drives, Heatsinks & Memory

### Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
311204	Intel Celeron® processor	800	FCPGA-370	\$42.09	\$37.88
150501	Intel Pentium MMX® proc.	233	376/PGA	69.95	62.95

♣ Pull = Extra Savings

### Legacy 3.5" Hard Disk Drives\*

Part No.	Capacity	Description	Warranty	1	10
151036	3.2GB♣	EIDE/Ultra DMA33	1 year	\$39.95	\$29.96
151044	4.3GB♣	EIDE/Ultra DMA33	1 year	49.95	45.95
146333	2.5GB♣	EIDE/FAST ATA-2	1 year	33.29	29.95
124978	1.27GB♣	IDE	1 year	30.25	27.22

\* Manufacturers may vary & capacity may exceed specification ♣ Pull = Extra Savings

### 1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H • Weight: 1.4 lbs.



Part No.	Product No.	Mfr.	Color	1	10
115490	FD235	TEAC	Beige	\$23.94	\$21.54
189165	—	Varies	Beige	13.14	11.40
249367	MPF920-Z	Sony	Beige	17.29	12.96
661108	D359M3D	Mitsumi	Black	20.95	18.95

♣ Pull = Extra Savings

### CPU Heat Sinks and Fans\*\* **Quantity SAVE**

Part No.	Description	Size (H" x W" x D")	1	10
181278	Heat sink w/ fan for socket 7 (ATX)♣	2.12 x 2.05 x 1.67	\$8.49	\$6.37
190545	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	13.55	12.19
645482	Heat sink w/ fan for socket 370	2.04 x 2.04 x 1.06	10.95	9.49
319185	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59	8.05	6.05
129226	Heat sink for 486 CPU - adhesive back	1.70 x 1.63 x 0.36	2.95	2.21
684748	Heat sink w/ fan for socket 7 (AT/ATX)	1.00 x 2.60 x 2.30	8.99	8.59

\*\* See website for photos ♣ Blue Part No. = Limited Quantity Available

### Legacy Memory Modules **Quantity SAVE**

Part No.	Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
148419	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	\$65.95	\$59.95
148451	JEEDO7264	64MB	60ns SIMM EDO	16M x 32	72	30.95	28.95
148443	JEEDO7232	32MB	60ns SIMM EDO	8M x 32	72	43.95	32.96
41751	421000A9B-70	1MB	70ns SIMM	1M x 9	30	4.95	3.71

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

**MICRON**

### Memory Module

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
699536	MT8LSDT3264HG-13ED2♣	256MB	133MHz	32M x 64	144	\$119.57	\$114.76

**More Memory at [www.Jameco.com/Prod/Memory](http://www.Jameco.com/Prod/Memory)**

### USB Thumb Drives

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.

- 10 year data retention
- Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at [www.Jameco.com](http://www.Jameco.com)



Part No.	Description	1	10
687682	128MB (PNY)	\$17.95	\$16.49
687738	128MB	15.95	13.95

### IntelliMover Kit

The IntelliMover kit lets you quickly and easily move email, music, photos, files, folders, settings and more from your old PC to a new PC. You can select file types, and settings that you want to move, so you do not end up cluttering your new PC with unwanted files.

- Transfers data and settings from one product version to another (e.g. Microsoft® Word 97 to Word XP)
- Transfers data and settings across operating systems
- Integrates intelligently on your new PC—there's no over writing of drivers or data files
- "Drag and Drop" individual files and folders between two PC's with the IntelliMover's file transfer utility and either data transfer cable

Part No.	Description	1	10
689910	IntelliMover kit with CD	\$24.95	\$22.45



### Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.

Part No.	Description	1	5
249308	Business card CD-R kit	\$4.95	\$3.46



## Mounting Kits

Designed to mount most 3.5" media devices into standard 5.25" half height bays.  
• 3.5" hard drive mount kit (short)

Part No.	Cross Ref.	1	10	25
180857	HDB35	\$3.35	\$2.95	\$2.21

## PS/2 Cable

• For use with switchbox  
P/N 149391, see web

Part No.	Description	1	10
204062	6' PS/2 cable	\$16.95	\$15.29

## CD-ROM Audio Cables

Quantity SAVE

Part No.	Connection from Sound Blaster to	Length	1	10	50
127546	Sony/MPC2	18"	\$2.95	\$2.51	\$1.88
168612	Universal	18"	4.95	4.46	3.35

## Hands-Free Condenser Microphone

• Cord length: 8'  
• Connector: 3.5mm male stereo plug  
• Size: 1.9"L x 1.2"W x 0.3"H  
• One-year warranty



Part No.	Description	1	10	50
135248	Microphone	\$4.49	\$3.99	\$3.65

[www.Jameco.com](http://www.Jameco.com)

Find more PC Accessories  
on our website today.

## 10" B&W Security Monitor w/ Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for volume and power switch
- BNC jacks for audio/video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12.0"D x 9.1"H • Weight: 15 lbs.



Includes: Manual

Part No.	Description	1	10
253067	10" B/W monitor	\$121.05	\$88.84

## 5.6" Color TFT Monitor

NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 1.2"D x 4.8"H • Weight: 2.6 lbs.



Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702	5.6" TFT color monitor	\$279.95	\$259.95

## XBOB-NC Video Text Module

XBOB integrates Decade's third-generation OSD technology into a convenient plug & play format. The command set is nearly identical to that of our popular BOB-3 module (see right), and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.



- Higher display density; 40x17 characters (680 max.)
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control

Part No.	Description	1	10
283768	XBOB video text module	\$189.95	\$179.99
100845	9VDC power supply	4.59	4.37
283776	Serial cable	9.95	8.95

## BOB-4 Video Text Module

- Simple hookup (DC, serial data, video I/O)
- High display density: up to 480x240 (NTSC) or 480x288 (PAL)
- Industry-standard ANSI control protocol (ECMA-048)
- Automatic video mode control (local/genlock)
- Async, Synchronous, and SPI host communication options
- Software-controlled digital outputs (5)
- Customer-configurable video standards (NTSC/PAL)
- Stand-alone operation for simple source ID, target reticle, etc.



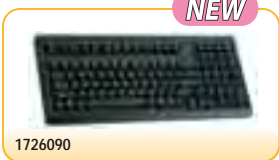
Part No.	Description	1	10
1537476	BOB-4 video text module	\$99.95	\$94.95

## Keyboards

More Keyboards at  
[www.Jameco.com/Prod/Keyboards](http://www.Jameco.com/Prod/Keyboards)



1726153



1726090



311183



211756



639550



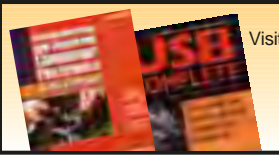
173649



681230



265375



1537109

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for our selection of  
Electronics-Industry Books

Part No.	Mfr.	Product No.	Interface	Description	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
1726153	Cherry	G84-4400PPBUS	PS/2	83-key tactile keyboard w/ trackball	14.6 x 5.5 x 0.8	1.3	\$184.89	\$179.23	\$173.57
1726090	Cherry	G81-1800HBAUS	PS/2	101-key general purpose compact keyboard with AT-XT interface, Windows® comp.	15.9 x 7.1 x 1.7	2.8	96.79	92.18	87.57
311183	OKI	HMB-631PUS	PS/2	84-key soft touch mini keyboard w/ track point mouse	12.6 x 6.2 x 1.0	5.0	35.59	30.25	25.71
211756	—	WK-540	5-pin DIN	88/89-key soft touch keyboard w/ touchpad, Windows® compatible	11.4 x 8.5 x 1.2	2.3	59.95	53.95	48.95
639550	IONE	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)	15.9 x 6.5 x 1.3	2.1	39.95	35.95	32.49
173649	—	SUN 3201256-1	PS/2	104-key tactile keyboard w/ 12 function keys, separate arrow & numeric keys	18.2 x 7.0 x 1.5	2.7	12.95	11.01	8.26
681230	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/built-in speakers	18.5 x 10.0 x 3.2	2.5	19.95	17.95	15.95
265375	ITRON	Scorpius-22RB	Serial	22-key serial tactile keypad w/ 2-key rollover and auto repeat function Includes manual and drivers	6.2 x 4.2 x 1.3	0.8	39.95	35.95	32.49
1537109	Panova	25551	USB	18-key USB tactile keypad	4.3 x 3.0 x 0.5	0.2	29.95	27.95	24.95

♣ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



Part No.	Manufacturer	Product No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
685943	—	OW7751	Mech. Ball	USB	3-button with scroll; black	4.8 x 2.5 x 1.5	\$14.95	\$13.49	\$11.95
687746	Cherry	M-5000	Optical	USB-PS/2	3-button with scroll with PS/2 to USB adapter; black	4.6 x 2.6 x 1.5	18.95	16.95	15.25
305082	IONE	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter	5.6 x 4.7 x 1.9	29.95	26.95	24.25
283223	—	—	Mech. ball	DB9 female	3-button serial	4.3 x 2.6 x 1.6	6.15	5.23	3.92
1586103	A4TECH	MOP-57	Optical	USB	3-button with scroll; silver	3.5 x 1.8 x 1.3	12.95	12.95	11.59

More Interface Cards at  
[www.Jameco.com/Prod/InterfaceCards](http://www.Jameco.com/Prod/InterfaceCards)

## Interface Cards



### Serial Interface Cards

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
171362	—	4025A	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550.	\$38.95	\$35.95
171556	—	99378	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/1/15 and address jumper configurable, dual 16C550 DB9 male.	32.85	28.75
172006	—	99467	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.	48.45	43.65
171548	—	99468	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550.	129.95	116.95
171660	—	99469	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	179.95	134.95
344903	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.49	26.15

### Parallel Interface Card

171927	—	4008A	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	\$39.95	\$35.95
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### Network Interface Card

308769	3-COM	3C509B-TPO	ISA	1	RJ-45	IEEE 802.3i (10Base-T) and IEEE 802.3 (10Mbps) compliant.	\$20.99	\$16.04
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♣ Pull = Extra Savings

### Super I/O Controller Card

131318	—	KW-557A	ISA	—	Mult.	Supports 2 IDE and 2 floppy drives, single parallel port, dual RS-232 (16550 UART).	\$29.95	\$26.95
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### Video Graphics Card

364111	ATI	109-54100-00	PCI	—	HDDB15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT4.0 compatible.	\$29.99	\$28.49
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More Computer Switchboxes at  
[www.Jameco.com/Prod/ComputerSwitchboxes](http://www.Jameco.com/Prod/ComputerSwitchboxes)

## Computer Switchboxes



### KVM Switchboxes

Part No.	Cross Ref. No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
114155	40H1-14402	2-way keyboard / mouse switchbox (2PCs to 1 user)	HDDB15 female / 5-pin DIN female	6.0 x 4.0 x 2.3	1.3	\$10.79	\$9.83
310826	KVM2717	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse, HDDB15 female for monitor. Requires 9.5VDC@500mA power supply; recommend P/N 100175, pg 196	4.7 x 4.0 x 1.8	1.5	42.99	38.69
79177	40H1-07402	2-way keyboard / monitor switchbox (2 users to 1 PC)	HDDB15 female / 6-pin DIN female	6.0 x 4.5 x 2.6	1.3	19.95	17.95
134017	40H1-25604	4-user switchbox (1PC to 4 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). P/N 66174 (DB15HD M-M cable); P/N 132346 (DB9 F-F cable), pg 105	7.5 x 5.3 x 2.8	2.3	21.95	16.46

### Serial-to-PC Switchboxes

79126	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
183418	—	4-serial port switchbox	DB9 female (4-ports to 1PC)	6.1 x 4.0 x 2.2	1.3	19.95	17.95

**30-Day Money-Back Guarantee**

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 246.

## 150 to 500-Watt PC Power Supplies



### ATX Power Supplies

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	10	25
422094	Seasonic	SS-500HT Active PFC	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	\$125.05	\$115.00	\$108.80
308814	Powmax	LP6100D*	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
427928	Seasonic	SS-300SFD Active PFC	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	51.05	46.90	44.40
1537310	Sparkle Power	FSP-300-60ATV*	300	+3.3/28, +5/30, +12/15, +5VSB/2, -5/0.3, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 201)	UL/CSA/TUV	6.0 x 5.6 x 3.5	4.0	26.95	23.95	19.95
1536915	Potrans	PP-253XA	250	+3.3/14, +5/25, +12/8, +5VSB/2 -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 201)	UL/CSA/TUV/CE	6.0 x 5.6 x 3.4	3.5	39.95	35.95	32.35
196189	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 201)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	35.65	30.30	22.73

### AT Power Supplies

692414	Autec	PCB-5300-2000	326	+5/30, +12/14, -12/0.5, -5/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 201)	UL/CSA/TUV	6.0 x 5.6 x 3.4	3.0	\$29.95	\$26.95	\$23.95
692393	Autec	PCB-5300-4043†	326	+5/30, +12/14, -12/0.5, -5/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 201)	UL/CSA/TUV	6.0 x 5.6 x 3.5	3.6	29.95	26.95	23.95
1537424	Sparkle Power	SPI-250G*	250	+5/26, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 201)	UL/CSA/TUV/CE	6.0 x 5.6 x 3.4	3.1	34.95	29.95	24.95
172823	Mean Well	AA-230*	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46

\* See photo above † With switch Pull = Extra Savings



### Surge Protectors



### 6-Outlet Surge Protectors



- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed • Lifetime warranty



### Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686	IBAR12RM	1280	12 outlet, 2 isolated filters	4.7	\$119.95	\$107.99

### Isobar Premium Surge Protectors

18981	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	\$49.95	\$44.95
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### Isobar Ultra Premium Surge Protector

19001	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	\$69.95	\$63.74
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### Standard Surge Protector

Economical and effective spike and noise suppression with diagnostic LEDs.

- \$75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes • Weight: 1.6 lbs.



Part No.	Product No.	Joules	1	10
124337	Super 7	2350	\$17.95	\$16.35



20175:

- Metal power strip
- 3-prong, 4' power cord
- Max. spike current: 4500A, 50 joules
- Size: 12.3"L x 2.4"W x 1.3"H • Weight: 1.5 lbs.



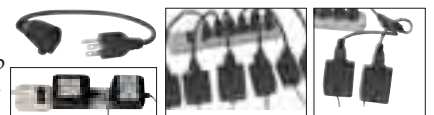
216485:

- Heavy-duty power cord (14AWG x 3)
- Max. spike current: 4500A • Clamping voltage: 400V
- Max. surge dissip.: 900 joules • Max. surge volt.: 6500V
- RESET/OFF switch with built-in 15A circuit breaker • Weight: 0.9 lbs

Part No.	Product No.	1	10	100
20175	51W1-13206	\$11.15	\$10.00	\$8.87
216485	51W1-10206	6.95	6.25	5.59

### Power-Strip-Saver Single Outlet and "Y" Double Outlet

Get full use of your power strips and UPS outlets with our high quality power strip outlet saver. You can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.



- Length: 1 ft. • Cord type: SVT

Part No.	Description	1	10	50
199778	AC power cord (black)	\$2.05	\$1.86	\$1.67
208347	"Y" power-strip-saver (2 ft.)	5.95	5.63	5.42

## More Power Supplies and Surge Protectors

available at [www.Jameco.com](http://www.Jameco.com).

Visit us online today!



## Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400bps
- Weight: 0.8 lbs. • Size: 4.0"L x 2.5"W x 1.0"H
- One-year warranty



**Includes:** AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935	Bi-converter	\$59.94	\$53.94	\$47.88

## ATEN Bidirectional Serial-to-Parallel Converter

115.2kbps, 512kB Buffer

- One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- DCE/DTE selectable • Stop bits: 1 or 2
- Size: 3.8"L x 2.4"W x 1.0"H • Weight: 0.8 lbs.
- One-year warranty



**Includes:** 9VAC @ 200mA adapter

Part No.	Description	1	10
182983	Serial/parallel converter	\$48.49	\$44.95

## ATEN Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)



Part No.	Description	1	10	25
116581	Short haul modem	\$29.95	\$25.46	\$19.10

## ATEN RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-232: DB25 female connector
- RS-485: terminal block and RJ11 connections
- Input: 110VAC • Weight: 0.9 lbs.
- One-year warranty



Now a European Version!

197931: Port powered (power adapter not included)  
Data rate: 100kbps

Part No.	Description	1	10
117701	RS-232-485/422	\$59.69	\$53.51
197931	RS-232-485/422	69.95	52.45
122956	RS-232-485/422 OPT ISO	124.79	93.59

More products at [www.Jameco.com](http://www.Jameco.com)

## IBM® 8-Port Ethernet Hub

Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.



Part No.	Description	1	10
226149	8-port hub	\$44.95	\$33.71

## USB 2.0 Docking Station

- Connects via USB-A port to your laptop
- Size: 4.8"W x 2.5"D x 1.0"H



**System Requirements:** PC with 75MHz min. Pentium® or equivalent; 16MB of RAM minimum, available USB-A port, Windows® 98 or later

Part No.	Product No.	1	5
527822	USB 2.0 dock	\$22.95	\$15.95

## Digital I/O Board TTL Level PCI Bus

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- 24-bit digital I/O
- Three 8-bit ports

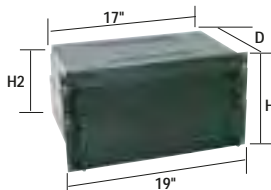


**Includes:** InstaCal: installation & test utilities software

Part No.	Product No.	1	10
197827	PCI-DIO24	\$88.95	\$85.95

## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Front panel: 0.12" thick
- Black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813

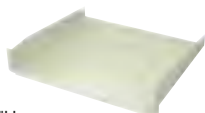


**Includes:** Mounting screws

Part No.	Dimensions (in.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	10
132813	1.73	1.25	9.75	6.2	\$40.35	\$36.35
132822	3.46	3.00	9.75	7.9	51.79	46.97
132840	3.46	2.88	11.75	9.1	53.95	48.59
132848	5.22	4.75	11.75	10.6	63.95	55.99
132856	5.22	4.75	13.50	11.8	75.05	67.92
132864	8.56	8.00	13.50	15.4	94.95	84.95

## Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H



Part No.	Description	1	10
149500	Cabinet mount plate	\$39.95	\$35.95

## USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
229594	6' cable clear	\$1.65	\$1.49	\$1.39
229607	10' cable clear	1.89	1.75	1.65

### USB-A Male to USB-A Female

Part No.	Description	1	10	25
222068	6' cable black	\$1.65	\$1.49	\$1.39
222076	10' cable black	1.89	1.75	1.65
222084	15' cable black	2.85	2.59	2.49

Many more USB cables on page 106

## 19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Weight: 18 lbs.
- Size: 19.0"W x 13.0"D x 1.75"H

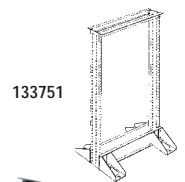


**Includes:** Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644	Rack mount KB drawer	\$249.99	\$234.99

## Relay Rack & Rack Panels

- Rack: Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84.0"H
- Dimensional weight: 70 lbs.



### 19" Wide Panel:

- 10-gauge black steel



### Rack screw:

- 10/32 screw; 5/8" phillips head (50 ea.)

Part No.	Description	Height	1	10
133751	Relay rack	84" .....	\$159.95	\$147.00
229489	Rack panel (2U)	3.50" .....	10.95	10.35
229500	Rack panel (4U)	7.00" .....	14.85	14.23
229447	Rack screw (50 ea.)	—	8.25	7.45

## 19" Rack Mount CAT 5 Patch Panels



Our CAT 5 patch panels feature 110D punch locks that are compatible with KRONE or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.

Part No.	Description	1	10
208784	24-port patch panel	\$44.05	\$42.09



## PowerSense™ Power-Over-Ethernet Mid Span Hubs

### PowerSense AX-6000 Series

- Current limited for short circuit protection with power isolation of 1500V<sub>RMS</sub>
- Supplies a full 15.4W for up to 8 devices as per IEEE 802.3af standards
- Two diagnostic LEDs
- Auto detects power requirements for safety and offers transparent 10/100Mb and management operation
- Support for all compliant IEEE 802.3af powered devices
- All chassis products feature a removable US power cord with IEC plug



#### 1 Slot Chassis with one standard 6500 module installed

Part No.	Product No.	Description	1	5	10
779093	AX-6108	8 power & data ports (10/100Mbps)	\$496.35	\$471.56	\$447.98
779106	AX-6108-RM	Optional 19" rackmount kit	18.99	18.05	17.15

#### 8 Slot Chassis with up to three 6500 modules installed

Part No.	Product No.	Description	1	5	10
779114	AX-6524	24 power & data ports (10/100Mbps)	\$1,075.95	\$1,054.89	\$1,033.99
779122	AX-6516	16 power & data ports w/ 1 cover plate	\$901.69	\$857.53	\$826.00
779131	AX-6508	8 power & data ports w/ 2 cover plates	\$686.75	\$653.15	\$629.13



## PS5E HD Patch Panels

PS5E HD patch panels are robust and installer-friendly products by design, combining punch-down connectors and standard modular jacks. They are available in both BIX and 110 insulation displacement connection (IDC) options. A color-coded icon labeling system can be used to tag each patch panel port and simplify network management.



Part No.	Product No.	Description	1	5	10
701241	AX100464	BIX patch pnl, 1U, 24 port gray, T568A/B	\$110.49	\$106.19	\$101.90
701253	AX100465	BIX patch pnl, 1U, 24 port black, T568A/B	\$110.49	\$106.19	\$101.90
701265	AX100472	BIX patch pnl, 2U, 48 port gray, T568A/B	\$213.05	\$197.16	\$189.22
701277	AX100473	BIX patch pnl, 2U, 38 port black, T568A/B	\$213.05	\$197.16	\$189.22
701289	AX100452	110 patch pnl, 1U, 24 port black, T568B/A	\$118.15	\$107.69	\$103.52
701294	AX100454	110 patch pnl, 2U, 48 port black, T568B/A	\$217.35	\$206.64	\$190.65



## Angled Management Bar Kit

This angled bar management kit is composed of an angled bar with 4 management devices each managing 6 cables. The short range installation bracket allows the management bar to be swiveled upward and maintain on the horizontal position and allows installation in tight spaces.



- Retrofittable to any patch panel or patch cord independent of manufacturer or performance
- Compatible to usual cable management solutions
- Swivelable and lockable
- Clear label identification

Part No.	Product No.	1	5	10
701310	AX102641	\$46.95	\$44.59	\$42.36



## Optimax Tool Kit

Conveniently packaged in a carrying case, this optimax tool kit includes tools, installation instructions and a training video in CD form required to terminate 900µm buffered optical fiber and jacketed optical fiber, install LC/SC or ST compatible mode and single mode connectors.

Includes: Installation tools, fiber cleaver, crimping tool, instruction manual, microscope, tweezers, alcohol wipes, marker, scissors, waste bottle, fiber stripper, cable stripper and training video



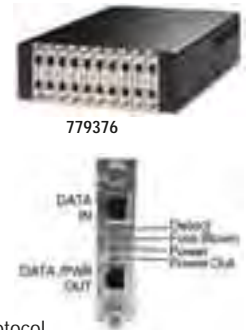
Part No.	Product No.	1	5	10
701302	AX100497	\$987.75	\$939.47	\$891.19

\* This product is a special order, non-cancelable, non-returnable and may take 1 week to ship.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

### PowerSense AX-8000 Series

- Individual power modules, hot swappable in the 19" rackmount ready chassis, use 1 per powered device
- Current limited for short circuit protection with power isolation of 1kV between ports for safety
- User replaceable fuses for recovery from power surge or lightning damage, quickly repair any module
- 4 diagnostic LEDs
- Removable US power cord with IEC plug
- Mix & match for compatibility with IEEE802.3af or legacy Cisco CDP power devices, 12V or 24V protocol



#### Chassis complete with 10 standard power chassis modules

Part No.	Product No.	Description	1	5	10
779350	AX-8310	10 pwr. & data modules, 12V protocol	\$767.75	\$730.16	\$703.31
779368	AX-8410	10 pwr. & data modules, 24V protocol	767.75	730.16	703.31
779376	AX-8510	10 pwr. & data modules, IEEE802.3af compat.	767.75	730.16	703.31
779384	AX-8610	10 pwr. & data modules, Cisco CDP protocol	\$858.09	\$816.07	\$786.06
700751	AX-8300HW	Double wide power & data mod., 12V protocol	\$88.79	\$84.43	\$81.32

## Category 6 Network Cables

- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6



### Category 6

Part No.	Length	Color	1	10	50
219707	3 ft.	Gray	\$2.79	\$2.69	\$2.02
219731	25 ft.	Gray	10.59	9.97	9.44
219740	50 ft.	Gray	13.29	12.44	11.61
219854	3 ft.	Blue	2.79	2.69	2.56
219889	25 ft.	Blue	11.29	10.71	8.87
219897	50 ft.	Blue	12.89	11.76	10.03
220003	3 ft.	White	2.79	2.39	1.78
220011	7 ft.	White	3.99	3.87	3.68
220046	50 ft.	White	17.15	16.30	15.48
219900	3 ft.	Red	2.79	2.69	2.56
219934	25 ft.	Red	8.59	7.94	7.41
219942	50 ft.	Red	14.29	12.45	9.11
219803	3 ft.	Green	2.79	2.69	2.56
219846	50 ft.	Green	12.89	11.76	10.03
219782	25 ft.	Black	9.19	8.23	6.92
219791	50 ft.	Black	14.29	14.15	10.31
219969	7 ft.	Yellow	3.99	3.87	3.68
219993	50 ft.	Yellow	12.89	11.76	10.03

More CAT6 cables available on page 106

## What is Power-Over-Ethernet?

Power over Ethernet or PoE technology adds electrical power transmission to remote devices over standard twisted-pair cable in an Ethernet network. This allows powering IP telephones, wireless LAN access points, webcams, Ethernet hubs, computers, and other appliances where it would be inconvenient or unfeasible to supply power separately.

The technology is somewhat similar to POTS telephones, which also receive power and analog data via the same cable. The most important benefit of PoE is that it works with an unmodified Ethernet cabling infrastructure.



**Practical Practices**  
Money Saving Tips for the Engineer

## SONY® Color CCD Camera

### Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system w/510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

**Requires:** 12VDC @ 120mA power supply (recommend P/N 163993, pg 196)

**Includes:** Power/signal cable & mounting hardware

Part No.	Description	1	10
213436	Enclosed color camera	\$179.95	\$161.95

## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Power supply: 12VDC (recommend P/N 162996, pg 195)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB • Size: 1.3"L x 1.3"W x 1.2"H

Part No.	Description	1	10
171029	Camera board	\$44.95	\$40.45

## Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- Scanning system: 2:1 interlace
- Electronic shutter: 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω • Vertical freq.: 60Hz
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable • S/N ratio: 52dB
- Auto-tracing white balance • 2X digital zoom
- Power requirements: 12VDC @ 150mA

Part No.	Description	1	10
395461	Color camera	\$103.35	\$93.89

## Color Interline Camera

### Water resistant with mounting bracket

- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 53°
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply

**Includes:** Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017	Color camera	\$99.95	\$89.95

## Color Digital CCD IR Dome Camera

### NTSC format

- Image sensor: inch interline transfer CCD
- Auto-electronic shutter
- Auto white balance
- Scanning system: 525 lines, 60 fields/sec
- Electronic shutter: 1/60 to 1/80,000 sec.
- Video output: 1Vp-p video at 75Ω
- S/N ratio: better than 42dB • 522(H) x 492(V)
- 420 TV line resolution • 1 lux w/ F1.2
- Power source: 12VDC • Size: 3.4" Dia. x 3.7"H

Part No.	Description	Price
1581370	Dome camera	\$117.65

## Color Digital CCD Dome Camera with 0.01 LUX Illumination

### NTSC format

Provides color video surveillance in low light conditions thus eliminating the need for traditional IR illumination. It utilizes any available bit of light and maximizes its effectiveness, providing a viewable picture throughout the image area.

- Image sensor: 1/3" Sony CCD
- 420 line horizontal resolution
- Auto-electronic shutter/gain control, white balance/backlight compensation
- Power: 12VDC @ 110mA • 510(H) x 492(V)
- Video output: 1Vp-p, 75Ω • 4mm lens

Part No.	Description	1	10
1581396	Dome camera w/ illumination	\$220.55	\$206.05

## Mini Wireless Color Camera

This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150' (unobstructed) range and 9-volt battery power, you can now add video capability to a world of hobby applications.

Part No.	Description	1	10
249025	Wireless color camera	\$89.95	\$80.95

## DigiVue™ Digital Surveillance System

- Input signal: 4 video, 1 audio channel
- Watermark time & date stamp
- Display/record: 60 frames/sec.
- Enhanced MPEG4 format
- Adjustments: light, contrast, hue, saturation
- Record mode: event/continuous/schedule
- Resolution: 160 x 120 to 640 x 480
- Storage: HDD/VDRAM/CD-RW/DAT/MO/ZIP/RAID
- Supports real time WAN/LAN and internet monitoring via client software, internet explorer

**Includes:** CD-ROM and drivers

**Minimum system requirements:** Pentium® 4, 1.8GHz, 256MB RAM, 32MB AGP video card

Part No.	Product No	1	10
639568	EDV-XV425	\$94.95	\$85.46

**More Security Products available at**  
[www.Jameco.com](http://www.Jameco.com)

## 2.4GHz Wireless Audio/Video Transmitter

- Frequency range: 2413MHz to 2470MHz
- Impedance: 50Ω
- Output power: 1 Watt
- Video input: 1Vp-p
- Audio input: 2Vp-p

**Includes:** 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

- **179864:** For use with 2.4GHz cameras, transmitters and receivers
- **289852:** Gain: 3dB; unidirectional

Part No.	Description	1	10
289852	Wireless audio/video tran.	\$199.95	\$149.96
179864	2.4GHz SMA RF antenna	13.65	10.24
179872	Wireless extension cable	10.99	9.89

## 4-Channel 2.4GHz Wireless Audio/Video Receiver & 10mW Transmitter

- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.

### Receiver:

- Non-volatile memory protects system set-up from power loss
- Video loss detection & freeze channel
- Mute and alarm trigger port
- Weight: 1.8 lbs.

**Includes:** RCA cable, 12VDC @ 500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858	4-channel transmitter	\$94.45	\$85.05
192866	4-channel receiver	124.95	112.95

## DigiVue™ Complete Digital Video Recording Security System

### EDV-XV425 Video Capture Card:



- 60fps per card
- Monitors multiple IP addresses
- Supports multiple card installations
- 4-ch video and 1-ch audio
- Supports real time WAN/LAN and internet monitoring

**Includes:** PCI video capture card, 2 outdoor color day/night cameras, 2 micro dome color cameras, video recording software w/ drivers, four 50' video/power cables and 4 power supplies for the camera

Part No.	Product No	1	10
639584	EDV-XV425 kit	\$449.99	\$405.00

## Cable Assemblies

### 75Ω RG59/U BNC – BNC

Part No.	Length	1	10	50	100
262730	25 ft. 	\$9.95	\$8.96	\$7.17	\$5.38
262748	50 ft. 	17.05	16.25	15.45	14.69

### 75Ω BNC – BNC and Jack-to-Jack

Part No.	Length	1	10
1581353	25 ft.	\$8.75	\$7.88
1581388	50 ft.	24.49	22.04
1581409	100 ft.	28.59	25.71

**For additional BNC Cables see pages 112 & 139.**



**Mastech M300**  
• 2000 count  
• 6 functions  
• Extremely low cost



P/N 220812  
**\$9.65**



**Velleman DVM850BL**  
• 2000 count  
• 6 functions



P/N 355207  
**\$16.75**



**Jameco JE110**  
• 2000 count  
• 6 functions  
• 100µV resolution



P/N 119212  
**\$19.95**



**BP-1562**  
• 2000 count  
• 6 functions



P/N 318781  
**\$9.95**



**Mastech MAS830L**  
(220759)  
• 2000 count  
• 7 functions  
• Continuity test

**Mastech MAS838**  
(220741)  
• 2000 count  
• 8 functions  
• Temperature



P/N 220759  
**\$15.49**

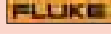
P/N 220741  
**\$19.95**



**Mastech MY64**  
• 2000 count  
• 11 functions  
• Temp./frequency



P/N 220775  
**\$42.69**



**Fluke 73-III**  
• 3200 count  
• 9 functions  
• Autorange/frequency  
• Analog bargraph



P/N 182035  
**\$189.89**



**Mastech MY68**  
• 3260 count  
• 12 functions  
• Autorange  
• Analog bargraph



P/N 220767  
**\$47.95**



**Extech EX330\***  
(645626)  
• 4000 count  
• 9 functions  
• Non-contact AC voltage detector

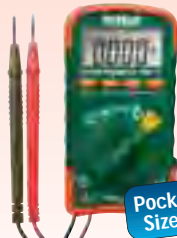


P/N 645626  
**\$47.45**

P/N 1581177  
**\$79.95**



**Extech DM110**  
• 4000 count  
• 10 functions  
• Autorange



P/N 692502  
**\$29.99**

				Basic Measurement Functions											Test Functions				Special Functions									
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F											1	5	
220812	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—	↔	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812	\$9.65	\$7.24	
355207	Velleman DVM850BL	2000	6	100µV	200m - 100	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	355207	16.75	15.92
119212	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					4.8 x 2.6 x 1.0	119212	19.95	14.96
318781	BenchPro BP-1562	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	318781	9.95	9.45
220759	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—	—	—	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220759	15.49	14.99	
220741	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—	—	—	-20 to 1000	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741	19.95	15.96	
220775	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—	—	2k - 20k	-20 to 1000	—	✓		✓	✓					7.4 x 3.6 x 1.3	220775	42.69	39.09	
182035	Fluke 73-III	3200	9	100µV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M	—	—	—	—	—	—	✓		✓		✓	✓			6.6 x 3.0 x 1.1	182035	189.89	184.99	
220767	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—	—	32.6k - 150k	—	—	✓		✓	✓					7.4 x 3.6 x 1.3	220767	47.95	45.49	
645626	Extech EX330*	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 10	.1µ - 10	.1 - 40M	.001n - 200µ	—	—	.001 - 10M	-50 to 1000	-58 to 1832	✓		✓		✓				5.7 x 2.9 x 1.6	645626	47.45	45.15	
1581177	Extech EX430	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 20	.1µ - 20	.1 - 40M	.1n - 100µ	—	—	.001 - 10	-20 to 750	-4 to 1382	✓		✓		✓		✓		7.4 x 3.2 x 2.0	1581177	79.95	77.95	
692502	Extech DM110	4000	10	100µV	0 - 500	0 - 500	0 - .40	0 - .40	400 - 40M	0 - 200µ	—	—	9 - 10M	—	—	✓		✓						4.3 x 2.2 x 0.5	692502	29.99	27.99	
211650	Extech MN26	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—	↔	10 - 10M	0 to 760	0 to 1400	✓		✓		✓				4.8 x 2.4 x 1.6	211650	39.95	37.95	
117373	BenchPro BP-1949	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		400µ - 10	5 - 50k	-20 to 1000	—	✓		✓		✓		✓		7.7 x 3.6 x 1.6	117373	89.95	71.90
137462	BenchPro BP-1737	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		400µ - 10	5 - 50k	-20 to 1000	—	✓		✓		✓		✓		7.7 x 3.6 x 1.6	137462	135.99	122.39
1581185	Extech MP510†	5000	7	10µV	50m - 1000	50m - 1000	500µ - 10	500µ - 10	50 - 50M	50n - 9999µ	—	—	0.01 - 125k	—	—	✓		✓			✓	✓		7.4 x 3.4 x 1.4	1581185	139.95	135.99	
1537328	Fluke 115†	6000	9	100µV	600m - 600	600m - 600	6 - 20	6 - 20	600 - 40M	1000n - 9999µ	—	—	99.99 - 50k	—	—	✓		✓		✓	✓		✓	10.9 x 6.3 x 2.2	1537328	149.95	147.95	
1537336	Fluke 117*†	6000	9	100µV	600m - 600	600m - 600	6 - 20	6 - 20	600 - 40M	1000n - 9999µ	—	—	99.99 - 50k	—	—	✓		✓		✓	✓		✓	10.9 x 6.3 x 2.2	1537336	193.69	185.91	
192655	Fluke 175	6000	12	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—	—	99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192655	219.89	214.39	
185535	Fluke 179†	6000	13	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—	—	99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	185535	239.89	227.89	
222527	Wavetek/MM 37XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	4m - 40	—	100 - 10M	—	—	✓	✓	✓		✓	✓		✓	7.8 x 3.6 x 2.4	222527	129.49	122.99	
222543	Wavetek/MM 38XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	—	—	100 - 10M	-20 to 1300	-4 to 2372	✓		✓		✓	✓	✓	✓	7.8 x 3.6 x 2.4	222543	149.49	141.99	
318764	BenchPro BP-1415	20,000	8	10µV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20µ	—	↔	20k	—	—	✓		✓	✓					7.4 x 3.6 x 1.2	318764	73.49	66.15	
182043	Fluke 189	50,000	13	1µV	50m - 1000	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50µ	—		500 - 999.99k	-200 to 1350	-328 to 2462		✓		✓		✓	✓	✓		8.0 x 3.9 x 2.0	182043	429.89	416.99
1581214	Protek 6800	80,000	10	1µV	8 - 1000	80m - 750	80m - 10	80m - 10	80 - 80M	1n - 100µ	—		1K - 8M	-50 to 1372	-58 to 2502		✓		✓		✓	✓	✓		7.5 x 3.5 x 1.5	1581214	193.95	189.95

\* with non-contact voltage detector (100-600VAC range) † with backlight



**Extech MN26**  
• 4000 count  
• 11 functions  
• Autorange  
• Temp./frequency



P/N 211650  
**\$39.95**



**BP-1949**  
(117373)  
• 4000 count  
• 12 functions/RS-232  
• Autorange  
• Temp./frequency



P/N 117373  
**\$89.95**

137462

P/N 137462  
**\$135.99**



**Extech MP510**  
• 5000 count  
• Backlit LCD/  
auto power off



P/N 1581185  
**\$139.95**



**Fluke 115**  
(1537328)  
• 6000 count  
• Backlit  
• True RMS



P/N 1537328  
**\$149.95**

P/N 1537336  
**\$193.69**

1537336

P/N 1537336  
**\$193.69**



**Fluke 175**  
(192655)  
• 6000 count  
• 12 functions  
• Autorange  
• Frequency



P/N 192655  
**\$219.89**

P/N 185535  
**\$239.89**

185535

P/N 185535  
**\$239.89**



**Wavetek/MM 37XR**  
(222527)  
• 10,000 count  
• 14 functions  
• Inductance  
• Autorange  
• dB display



P/N 222527  
**\$129.49**

222543

P/N 222543  
**\$149.49**



**BP-1415**  
• 20,000 count  
• 8 functions  
• Capacitance



P/N 318764  
**\$73.49**



**Fluke 189**  
• 50,000 count  
• 13 functions  
• Data logging  
• Temp./frequency



P/N 182043  
**\$429.89**



**Protek 6800**  
• 80,000 count  
• 10 functions  
• RPM, DBM function  
• Square wave generator



P/N 1581214  
**\$193.95**

True RMS

**Passive-Component  
Digital LCR Meter**

- 4½-digit backlit LCD display
- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- **Inductance ranges:** 2000µH to 10,000H
- **Capacitance ranges:** 2000pF to 10mF
- **Resistance ranges:** 20Ω to 10MΩ
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999
- Quality (Q) reading: 0 to 9999
- Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs.

**Includes:** Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678	LCR Meter .....	\$178.95	\$160.95
189238	9VDC @ 300mA adapter .....	5.35	4.52

**Mini Analog Multimeter**

- Easy to read analog display
- 5% full scale accuracy
- Battery test on 9V and 1.5V batteries
- 6 functions including battery and decibel test
- **DC current ranges:** 0.5mA to 250mA
- **DC voltage ranges:** 2.5V to 300V
- **AC voltage ranges:** 10V to 300V
- **Resistance ranges:** 10KΩ to 1MΩ
- Size: 6.1"H x 3.5"W x 1.9"D • Weight: 0.5 lbs.

**Includes:** Test leads, protective holster and 1.5V AA battery

Part No.	Product No.	1	5
1536843	38073 .....	\$14.59	\$14.24

**50mV/50A Current Shunt**

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No.	Description	1	10	25
162309	Current shunt ⊕ .....	\$28.19	\$25.41	\$22.54

**20MHz Industrial Scopemeter®****Digital Scope, 15-Function  
Digital Multimeter & Recorder**

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. It automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.



Part No.	Description	Price
162747	Fluke 123-003 w/o software .....	\$995.05

**See page 253 for Fluke 124 Industrial Scopemeter®****400A AC/DC Clamp  
Meter/Multimeter**

- Auto ranging with auto power-off
- 0.9" (23mm) jaw size
- Continuity beeper and diode test
- Overload protection
- Over range and low battery indicators
- One touch "Auto Zero"
- 4000 count LCD display
- Data hold freezes current reading on display
- Basic current accuracy: AC: ±3.0%; DC: ±2.5%
- Measures AC/DC current, DCV, ACV, resistance, capacitance, frequency, temperature, and duty cycle
- Basic voltage accuracy: AC: ±2.0%; DC: ±1.5%
- **AC/DC current ranges:** 40A–400A; 0.01A max. res.
- **Capacitance ranges:** 40nF–1000µF; 0.01nF max. res.
- **DC/AC volt. ranges:** 400mV–600V; 0.1mV max. res.
- **Resistance:** 400Ω–40MΩ; 0.1Ω resolution
- **Duty cycle:** 0.5%–0.99%; 0.1% max. res.
- **Frequency ranges:** 5Hz–150kHz; 0.001Hz max. res.
- **Temperature ranges:** -58° to +1830°F (-50° to +1000°C); 1° max. resolution

**Includes:** Test leads, case, and 2 AAA batteries

Part No.	Product No.	1	5
374070	MA220 .....	\$89.09	\$80.18

**1000A Clamp Meter  
with IR Thermometer**

- Non-contact IR temperature measurements with laser pointer
- Peak hold captures inrush current and voltage measurement
- 1.7" (43mm) jaw opening for conductors up to 750MCM
- 4000 count backlit dual display
- Data hold and min./max.
- Auto ranging with manual range button
- Auto power off
- **IR temperature ranges:** -58°F – 518°F (-50°C – 270°C)
- **AC/DC current ranges:** 0.1A – 1000A
- **AC/DC voltage ranges:** 0.1mV – 600V
- **Resistance ranges:** 0.1Ω – 40MΩ
- **Capacitance ranges:** 0.001nF – 40,000µF
- **Frequency ranges:** 0.001kHz – 4kHz
- **Type K temp. ranges:** -4°F – 1400°F (-20°C – 760°C)
- Continuity and diode test • True RMS
- Size: 10.6"L x 4.3"W x 2.0" thick

**Includes:** Test leads, 9V battery, type K probe, and belt holster

Part No.	Product No.	1	5
1585881	EX830 .....	\$179.95	\$175.95

**Wire Tracer/Tone Generator Kit**

- Typical applications: identifies wire pairs, trace LAN and telephone cables, check continuity, test telephone polarity, F type connector for testing 75Ω coaxial video cables
- Transmitter with output cables terminated in modular RJ11 and RJ45 phone connectors
- Injects traceable signal into cables, checks telephone lines, and performs continuity checks
- Adjustable sensitivity control improves wire identification and eliminates false detection
- Non-contact probe audibly identifies selected wire/cable
- Traces wires from source to termination
- Size: Probe – 5.8"L x 1.1"W x 1.1"D; Generator – 4.1"L x 2.6"W x 0.9"D

**Includes:** Tone probe and tone generator with RJ11 and RJ45 connectors, adaptor with F type coaxial connector, alligator clips, 4 LR44 batteries, 9V battery and carrying case

Part No.	Product No.	Size (probe)	Size (generator)	Price
692511	TG30	5.8"L x 1.1"W x 1.1"D	4.1"L x 2.6"W x 0.9"D .....	\$48.99

**3-in-1 Lab Center****Your space saving lab solution! Everything you need in one unit.****Digital Multimeter:**

- 3-1/2 backlit LCD
- DC voltage ranges: 200mV to 600V
- AC voltage ranges: 200V to 600V
- Resistance ranges: 200Ω to 2MΩ
- Automatic polarity indication
- Data hold function and buzzer
- DC current ranges: 200µA to 10A
- Diode, transistor and continuity tester

**Regulated Power Supply:**

- Selectable output voltages: 3 to 4.5; 6 to 7.5; 9 to 12VDC
- LED overload and power indicators

- Output current: 1.5A (2A peak)
- On/off switch

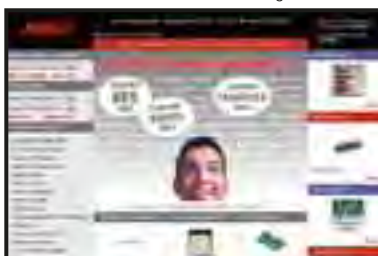
**Soldering Station:**

- 48W ceramic heating element with temperature sensor
- Temperature range: 150°C to 450°C

- 24V soldering iron

**Includes:** Test leads, user manual, sponge, spare bit for soldering iron and 9V battery for DMM

Part No.	Product No.	Description	1	5
695025	LAB1	3-1/2 digital multimeter, regulated power supply and soldering station .....	\$172.95	\$163.97



For more DMMs,  
please visit our website at  
[www.Jameco.com](http://www.Jameco.com)

## 2000-Count Multimeters

- Resolution: 100µV maximum
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.



### 160830: 3 1/2-Digit

- DC/AC current ranges: 20µA – 10A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS

### 203801: 3 1/2-Digit

- DC/AC current ranges: 20µA – 2A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS

### 421542: 3 1/2-Digit

- DC/AC current ranges: 200µA – 2A
- AC voltage ranges: 200mV – 750V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2mS – 200nS
- Frequency ranges: 20Hz – 50kHz

❖ Refurbished = Backed by Jameco

Part No.	Product No.	Price
160830	8010A❖	\$199.95
203801	8012A❖	199.95
421542	8050A❖	219.95

## 20,000-Count True-RMS Benchtop Multimeter

- 4½-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 10A
- Resistance ranges: 200Ω – 20MΩ
- Frequency measurement up to 200kHz
- Continuity check with beeper
- Data hold, diode check, transistor  $h_{FE}$  measurement
- Size: 9.9"L x 9.8"W x 3.6"H
- One-year manufacturer's warranty • Weight: 6.1 lbs.



**EZ DIGITAL**

Part No.	Product No.	1	10	25
132564	DM441	\$269.95	\$256.49	\$243.49

## Benchtop Power Supplies



See page 220.

## 2-Channel USB PC Oscilloscope

The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. Its highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz are giving this unit all the power you need.

**veleman**



### Oscilloscope:

- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Input range: 5mV to 2V/division
- Real time sampling frequency: 1.25kHz to 50MHz
- Sampling frequency for repetitive signals: 1GHz

### Spectrum analyzer:

- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

### Transient recorder:

- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Max. number of samples: 100/s
- Min. number of samples: 1 sample/20s

**System requirements:** IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

**Includes:** PC oscilloscope, 2 x 60MHz scope probes, USB cable, CD software, and manual

Part No.	Description	1	5
695017	PCSU1000	\$443.79	\$399.41

## Handheld 2MHz Digital Oscilloscope with 3½-Digit Multimeter

- 10MHz for repetitive signals; 2MHz for single shot events
- Input impedance: 1MΩ/20pF
- Max. input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference)
- LCD graphics display: 64 x 128 pixels
- Vertical resolution: 8-bit
- Timebase range: 0.2µs to 1 hr./div
- Input sensitivity: 5mV to 20V/div
- Linearity: ±1 bit • Screen hold
- True RMS and dB measurements
- Trigger mode: run, normal, once, and ± slope
- High contrast 3.3" diagonal LCD display
- Recommend 9VDC @ 300mA power supply (133891, pg 195)
- Weight: 1.0 lb.
- Batteries not included



**veleman**



355207 (DVM850) can be purchased separately, pg 215

**Free DMM!**

**Includes:** DVM850 multimeter (below) and insulated BNC-to-alligator clip measurement probes

### 6-Function Multimeter:

- 3½ digit w/ backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H

Part No.	Description	1	5
355485	2MHz Oscilloscope w/ DMM (HPS10 + DVM850)	\$194.95	\$185.25

Detailed specifications for Oscilloscopes at [www.Jameco.com/OScopes](http://www.Jameco.com/OScopes)

## Handheld 5MHz Digital Oscilloscope with true-RMS Multimeter

- 5MHz bandwidth
- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input volt.: 600VDC or AC<sub>RMS</sub> max.
- Trigger modes: auto, normal, single
- Trigger source: channel A, channel B, external
- Trigger coupling: AC, DC
- Timebase: 1µs to 5S
- Input impedance: 1MΩ
- Sampling time: 25MS/s dual ch.; 50MS/s single ch.
- 132 x 128 pixel super-twist two level backlit display
- Data hold and low battery indications
- RS-232 PC interface and software for transferring waveforms and data • Resolution: 100µV max.
- DC voltage ranges: 0.001V to 1000V
- AC (TRMS) voltage ranges: 0.001V to 750V
- Resistance ranges: 1Ω to 5MΩ
- Frequency ranges: 0.01Hz to 10MHz
- RPM ranges: 240 to 60,000 RPMs
- Size: 3.5"W x 1.8"D x 7.7"H



**Includes:** Test leads, alligator clips, Ni-MH battery pack, AC adapter/charger, RS-232 cable, holster, and carrying case

Part No.	Product No.	1	5
645651	381295	\$427.49	\$406.15

## Handheld 20MHz Digital Oscilloscope & Multimeter

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- Oscilloscope:** 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5µs/div; 20 MS/s sampling rate
- Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- Digital multimeter:** 3½-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40µA-400mA; DC current 400µA-400mA; resistance 400Ω-40MΩ; continuity & diode testing
- Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ±10ppm accuracy; 35V<sub>RMS</sub>/42V-P/60VDC max. input
- Oscilloscope probes: Use P/N 22892 or 216047, pg 219
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs. • One-year warranty



**METEX®**

Part No.	Description	1	5
162430	20MHz digital scope	\$823.95	\$787.90
163141	Rechargeable battery	53.75	48.54
162966	RS-232 cable & software	26.95	24.25

Find more Benchtop DMMs & Digital Oscilloscopes on our website at [www.Jameco.com](http://www.Jameco.com)

## 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1M $\Omega$ /30pF
- Parallel port interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576, pg 196)

### Oscilloscope:

- Time base: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel

### Spectrum Analyzer:

- Frequency range: 0 to 25MHz

### Transient Recorder:

- Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

**System requirements:** IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

**Includes:** 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184	PCS500AU	\$478.95	\$429.95

## inSTEK 150MHz 2-Channel Digital Oscilloscopes

Color and Monochrome with RS-232/USB/Parallel Interfaces

- Bandwidth (-3dB): 150MHz
- 15 memory settings
- Real-time sample rate: 100MS/s max. on each channel; equivalent: 25GS/s
- 2 channels with 8-bit vertical resolution
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div – 5V/div
- Time base range: 1ns/div – 10s/div
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- Input voltage: 100-240VAC @ 50-60Hz
- Frequency counter: 6 digits  $\pm$ 50ppm; AC coupled, 10Hz – 150MHz
- Weight: 9.3 lbs.
- Size: 12.2"W x 10.0"D x 5.6"H
- Two-year warranty

**229358:** Monoch. w/ RS-232/USB/parallel interface

**229366:** Color with RS-232/USB/parallel interface

**Includes:** BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229358	GDS-820S	\$1,259.95	\$1,196.95
229366	GDS-820C	1,439.95	1,367.95

## 40MHz Multifunction Oscilloscopes w/ Built-In 5MHz Function Generator

### Oscilloscope:

- 6" rect. high res CRT
- Max signal input volt.: 400V (DC and AC peak)
- Input voltage: 100/120/220/240VAC @ 50-60Hz
- Size: 15.7"L x 12.8"W x 5.2"H
- Weight: 26 lbs.
- Two-year manufacturer's warranty

**1586200:** w/ built-in 60mHz auto-detect counter

### Function generator:

- Frequency range: 0.5Hz to 5MHz (6 ranges)
- Output waveforms: sine, triangle, square
- Output impedance: 50 $\Omega$
- Output volt.: 20Vp-p (no load), 10Vp-p (w/50 $\Omega$  load)

## 20MHz 2-Channel Analog Oscilloscope

- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 gain selected
- Horizontal deflection: 0.1 $\mu$ s/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input voltage: 115/230VAC w/ line voltage selector
- ADD function measures sum of two signals
- Size: 12.8"W x 15.7"D x 5.2"H
- Weight: 16.8 lbs.

**Includes:** Two (X1/X10) test probes, power cord & manual

Part No.	Product No.	1	5
685311	SK0200	\$399.95	\$379.95

## 20MHz Dual Trace Oscilloscope with Alt-Mag

- 3.15" x 3.94" CRT with internal graticule and scale
- Vertical amplifier: 5mV/DIV to 5V/DIV in 10 steps (1-2-5 sequence)
- Horizontal sweep: 200ns/Div to 0.5s/Div in 20 steps (1-2-5 sequence)
- External trigger input: impedance – 1M $\Omega$   $\pm$ 5% + 20pF capacitance; maximum input voltage – 160V (DC or AC peak)
- Size: 12.5"W x 15.75"D x 5.1"H
- Z axis modulation: 5Vp-p sensitivity; maximum input voltage – 50V or ACp-p
- Weight: 16 lbs.
- Input voltage: 120VAC or 220VAC @ 50/60Hz

Part No.	Prod. No.	1	5	10
1536801	PROTEK 6020	\$425.99	\$419.99	\$399.99

## 30MHz Dual Trace Oscilloscope w/ LCR Component Tester

- 3.15" x 3.94" CRT with graticule and scale
- Vertical amplifier: 5mV/DIV to 20V/DIV in 12 steps (1-2-5 sequence)
- Horizontal sweep: 100ns/DIV to 0.2s/DIV in 20 steps (1-2-5 sequence)
- Triggering: external trigger input – 1M $\Omega$   $\pm$ 5% impedance; maximum input voltage – 4-p)
- Input voltage: 120VAC or 220VAC @ 50/60Hz
- Size: 12.2"W x 16.45"D x 5.1"H
- Weight: 14.3 lbs.

Part No.	Product No.	1	5	10
1536819	PROTEK 6030	\$463.05	\$453.99	\$446.99

Find more Digital Oscilloscopes at [www.Jameco.com](http://www.Jameco.com)

## METEX® 4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter

- **Function generator** capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency from 0.2Hz to 2MHz
- **Universal counter** capable of measuring frequency ranges from 5Hz to 1.3GHz
- **DC power supply** capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- **Digital multimeter** with ranges of: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400 $\Omega$  to 40M $\Omega$ ), capacitance (4nF to 400 $\mu$ F) and forward resistance of a semiconductor junction in k $\Omega$
- Size: 14.5"W x 14.0"D x 7.0"H
- Weight: 37 lbs.
- One-year warranty

**Includes:** Manual, cables and software

☐ Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	5
160864	MS9150 ☐	\$564.95	\$528.17

## 2MHz 10MHz Sweep Function Generators w/ Frequency Counter

Function Generator

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 1Hz to 10MHz
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50 $\Omega$  load
- Output impedance: 50 $\Omega$   $\pm$ 10%
- Offset variable range (max.):  $\pm$ 10VDC at open load
- Frequency sweep time: 20ms to 2s
- **Frequency Counter**
  - Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
  - Input sensitivity: channel A: 20mV<sub>RMS</sub> sine wave or 100mVp-p; channel B: 40mV<sub>RMS</sub> for 20MHz to 1.3GHz; 70mV<sub>RMS</sub> for 1.3GHz to 2.7GHz
  - Maximum input voltage: ch. A: 35Vp-p; ch. B: 3Vp-p
  - Input impedance: channel A, 1M $\Omega$ ; channel B, 50 $\Omega$
  - Data logging and graphic software
  - Size: 11.0"L x 8.2"W x 3.7"H
  - Weight: 13.4 lbs.

**Includes:** Coax and power cable, manual, serial cable and software

Part No.	Description	1	5
221911	10MHz/2.7GHz	\$417.95	\$403.34

## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50 $\Omega$   $\pm$ 2%
- Knob selector switches for waveforms and frequency ranges
- Size: 10.5"W x 11.2"D x 3.9"H
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch
- Weight: 6.6 lbs.

Part No.	Product No.	1	5
685329	SK3000	\$209.79	\$199.35

## Modular Oscilloscope Probes



- Hook and pointed probes
- **216047/236777**: with IC test ground cover and spring ground contact
- Length: 5' • Maximum input voltage: 600V
- Alligator clip ground wire • BNC male connector

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation		Attenuation	
	x1	x10	x1	x10
22892	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

\* with 20pF oscilloscope input

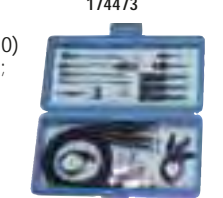
Part No.	Cross Ref. No.	1	10	50
22892	LF101E	\$29.94	\$26.96	\$24.26
216047	HF-9100	34.95	29.95	26.95
236777	HP-9250	45.95	43.39	37.25

## PROBE MASTER Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'

174473: 7-piece kit  
 212257: 25-piece kit



Part No.	Product No.	1	10
174473	4901-02 (150MHz)	\$44.05	\$42.62
212257	4915A (250MHz)	151.45	143.92

## 17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high and low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H



Part No.	Description	1	10	25
149930	Logic probe	\$33.75	\$30.23	\$28.26

## Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- 1MΩ sync input impedance
- "One shot" or continuous 5Hz pulse train
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10µs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H



Part No.	Description	1	10	25
24601	Logic pulser	\$21.95	\$19.76	\$17.78

Find more Probes and Frequency Counters at  
[www.Jameco.com](http://www.Jameco.com)

## Pomona 100MHz Probe Set

- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF
- Compensation range: 10-60pF • 48" cable

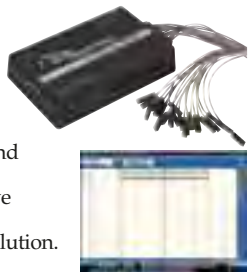


Part No.	Product No.	Description	1	10
156451	4550B	Probe kit	\$52.45	\$50.38

## 100MHz Logic Analyzer USB Interface

DigiView™ is a new 18-channel, 100MHz logic analyzer with professional quality and high portability. DigiView™ uses a deep-capture buffer and real time hardware compression to achieve long period captures without reducing resolution.

- 18-channels, 100MHz
- USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- Trigger on rising, falling, or transition of any channel
- Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution



Part No.	Description	1	5
256866	USB logic analyzer	\$498.95	\$474.09
256874	Cable replacement	29.95	24.80
256882	Grabber clip set (10)	29.95	28.49

## 1.5GHz Frequency Counter

### 2 Channels

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1Hz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM
- Size: 10.3"L x 10.0"W x 3.2"H
- Weight: 5.3 lbs. • One-year warranty



Includes: Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790	FC-7150	\$284.95	\$259.95

## Protek 3GHz Universal Counter

- High accuracy frequency measurements up to 3GHz
- Measures frequency, time interval, ratio, and totalize
- Large, bright 8-digit LED display with gate time and function indicators
- Frequency measurement: input A DC coupled 0.1Hz to 10MHz, AC coupled 10Hz to 100MHz with gate times of 0.01s to 10s in 4 decades; input B DC coupled 0.1Hz to 10MHz, AC coupled 10Hz to 100MHz; Freq C 100MHz to 3GHz with gate times of 0.0128s, 0.128s, 1.28s, and 12.8s
- Input voltage: 100/120/220/240V @ 50-60Hz
- Power consumption: 20W
- Size: 10.0"W x 11.0"D x 4.0"H • Weight: 5.3 lbs.



Part No.	Product No.	1	5
1581206	B3110	\$427.95	\$417.25

## 2MHz & 3MHz Function Generators w/ Frequency Counter

### Function Generator

- Waveforms: sine, triangle, square, TTL, and CMOS output; 229260 has ramp
- Frequency ranges: 229251: 0.2Hz – 2MHz in 7 ranges; 229260: 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control



### Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251: • 4-digit LCD display
- Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz • Size: 9.1"W x 11.0"D x 3.7"H
- 229260: • 6-digit LCD display
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

Includes: Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251	GFG-8020H	2MHz	\$259.95	\$246.95
229260	GFG-8216A	3MHz	279.95	251.99

## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs.
- Two-year warranty



Part No.	Product No.	1	5
160469	BK4011A	\$339.29	\$322.34



## 30-Watt Digital Benchtop Power Supply

- Single output, adjustable from 1.5VDC to 30VDC
- Compact design
- Input voltage: 85-264VAC @ 47-63Hz
- Output terminals
- Large digit backlit display
- Fixed current output
- Overload and short-circuit protection
- Size: 5.5"L x 5.2"W x 1.6"H • Weight: 1.2 lbs.



Part No.	Product No.	1	10
301971	PSU130	\$79.95	\$75.95

## 30 & 54-Watt Digital Benchtop Power Supplies

- Single output
- Adjustable voltage output: 645600 = 0-30V; 681221 = 0-18V
- Adjustable current output: 645600 = 0-1A; 681221=0-3A
- Max. display resolution: 0.1V/10mA
- Color coded banana plug output jacks
- Input voltage: 120VAC @ 60Hz
- Size: 9.4"H x 4.3"W x 6.1"D



Part No.	Product No.	Wt. (lbs.)	1	5
645600	382200 (30W)	4.4	\$128.69	\$115.82
681221	382202 (54W)	6.6	\$138.95	\$134.95

## Dual Tracking, Triple Output DC Power Supply

### Four Mode 60V/1.5A DC Regulated

- Linear power supply
- Four modes of operation: tracking, independent, series and parallel
- Dual 4 digit LED displays
- Input voltage: 110 or 220VAC
- Voltage output range: 0 to 60V
- Current output range: 0 to 1.5A
- Constant voltage and current mode
- Over load and short circuit protection
- Dual independently or simultaneously adjustable 0V to 60V and 0A to 1.5ADC outputs
- Variable auxiliary metered output (1.5V to 6.5V) for power circuits of up to 5A
- Outputs of up to 120VDC in series mode or 3ADC in parallel mode • Size: 15.9"W x 9.8"D x 5.3"H



Part No.	Product No.	1	10
1585928	382285	\$497.99	\$487.99

## 90-Watt Digital DC Power Supply

### 30V @ 3A

- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant voltage and current operation
- Size: 5.1"W x 10.1"D x 5.9"H



Part No.	Description	1	5
489184	DRP-303D	\$189.95	\$179.95



## 45W to 600W Benchtop Power Supplies

- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 115/230 ±10% VAC

### Analog display power supplies

- Accuracy: 2.5%

### Digital display power supplies

- Voltage accuracy: 1% + 2 digits
- Current accuracy: 1.5% + 2 digits

Quantity SAVE



301920



207618



207706



211693

### Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
301920	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9	\$119.94	\$113.94
301866	HY3003D	2-Digital LCD	90	30/3	5.4 x 6.2 x 11.5	10	\$179.95	\$134.96
207618	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	\$169.55	\$161.07
207626	HY3010C	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31	\$359.94	\$269.96
207693	HY5002	2-Digital LED	100	50/2	5.4 x 6.2 x 11.5	13	\$227.94	\$170.95
301938	HY3005	2-Digital LED	315	0-30/5	10.5 x 6.5 x 14.3	10	\$219.95	\$209.95
301911	HY3005D	2-Digital LCD	150	30/5	5.4 x 6.2 x 11.5	13	\$224.95	\$213.70
207706	HY5003	2-Digital LED	150	50/3	5.4 x 6.2 x 11.5	13	\$267.45	\$200.58
207600	HY5005	2-Digital LED	250	50/5	10.4 x 6.5 x 14.4	17	\$339.95	\$322.94
207635	HY3010	2-Digital LED	300	30/10	10.4 x 6.5 x 14.4	31	\$439.95	\$335.50
207686	HY3020	2-Digital LED	600	30/20	10.4 x 6.5 x 14.4	42	\$555.35	\$499.82

### Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
211722	HY3002-2	2-Digital LED	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	\$269.95	\$209.52
211705	HY3002D-2	4-Digital LCD	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	\$269.95	\$202.46
211693	HY3003D-2	4-Digital LCD	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	\$318.95	\$285.95
211730	HY3003-2	2-Digital LED	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	\$299.95	\$224.96
211713	HY3003-3	2-Digital LED	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	\$319.95	\$239.96
211684	HY3003D-3	4-Digital LCD	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	\$329.95	\$296.95
301947	HY3005D	4-Digital LCD	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5	\$384.95	\$365.70
301955	HY3005D-3	4-Digital LCD	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29	\$406.95	\$386.60
301962	HY5003-2	2-Digital LED	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26	\$339.95	\$254.96

## 150-Watt Power Supply

### 50VDC @ 3A

- Adjustable voltage/current outputs
- Input voltage: 110VAC @ 60Hz
- Color-coded terminals for ground, positive and negative terminals
- Color-coded adjustment knobs for voltage, current and fine adjustment
- One-year warranty
- Constant voltage & current operation
- 3A @ 115V fuse



Part No.	Description	Color	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
163723	50VDC @ 3A	Dark gray	9.0 x 4.75 x 7.5	12.3	\$146.85	\$139.49	\$132.49

## 150 to 250-Watt Analog Power Supplies

- Color-coded adjustment knob and output terminals for voltage
- Voltage and current panel meter
- Built-in fan
- Constant voltage and current operation

### 175265: 15VDC @ 10A, 150-Watt

- Output current: 15A max.
- Input voltage: 110VAC @ 60Hz
- Over-voltage, over-current, short-circuit protection
- Cigarette lighter plug for current output
- LED indicator for power and warning



175265

### 175257: 15VDC @ 15A, 225-Watt

- Output current: 25A max. (22A continuous @ 13.8VDC)
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)
- LED indicator for power and warning



175257

### 175249: 50VDC @ 5A, 250-Watt

- 5A @ 250V fuse
- Input voltage: 110VAC @ 50-60Hz
- Isolated ground



175249

Part No.	Cross Ref. No.	Output Voltage	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
175265	DPS150A	2-15VDC	5.7 x 6.2 x 4.0	12.0	\$163.45	\$147.10	\$141.65
175257	SPS250A	9-15VDC	5.6 x 6.2 x 4.0	3.8	\$159.95	\$143.95	\$129.56
175249	DPS5050	0-50VDC	4.9 x 7.7 x 6.7	13.8	\$195.65	\$185.35	\$176.64

## 150-Watt Digital Power Supply

30VDC @ 5A

- Adjustable voltage/current outputs
- 2A @ 250V fuse
- Constant voltage and current operation
- Dual digital display
- LCD displays for both current and voltage
- Coarse/fine adjustment knobs for current and voltage
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Color-coded terminals for positive, negative and ground connections
- Size: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs.
- One-year warranty



Part No.	Description	1	10	25
153243	30VDC @ 5A	\$249.99	\$229.99	\$199.99

## 100-Watt Triple Output Digital and Analog DC Power Supplies

30VDC @ 3A

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 - 30V voltage and 0 - 3A current outputs
- Constant voltage or current
- Current limiting indicator
- Displays of both voltage and current
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H
- Weight: 10.0 lbs.



197991

**EXTECH**  
INSTRUMENTS

Lower \$\$\$

Part No.	Description	1	10
197991	Digital DC	\$195.99	\$186.19
197982	Analog DC	168.95	151.95

## 200W Programmable Switching Power Supplies with PC Interface

- Voltage regulation: 10mV load;  $\leq 0.05\%$  line
- Current regulation: 5mA load;  $\leq 0.05\%$  line
- Output ON/OFF control
- Ripple:  $\leq 20\text{mV}_{\text{RMS}}$ ;  $\leq 10\text{mA}_{\text{RMS}}$
- Over-voltage/over-current/over-power/over-temperature protection
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs.
- Two-year warranty



**INSTEK**

Includes: Power cord, operations manual & test leads

Part No.	Product No.	Description	1	5
229323	PSP-2010	0-20V @ 0-10A	\$349.95	\$332.45

## 200W Programmable DC Power Supply

- High resolution programmable output and two fixed outputs of 5V and 3.3V
- Selectable constant voltage or current modes
- Auto output of up to 200 steps with programmable voltage, current and time
- Programmable over voltage/over current protection
- Storage/recall memory for 200 test set-ups
- Dual high contrast LCD display with backlight
- Dual output terminal for source & monitor connections
- Size: 12.2"W x 9.9"D x 5.3"H



Part No.	Product No.	1	10
1585901	382280	\$597.99	\$587.65

## Pocket IR Thermometer with Laser Pointer

The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.



Best Seller!

- Temperature range: -58°F to 518°F (-50°C to 270°C)
- Built-in laser pointer to improve aim
- F/°C switchable
- 6:1 field of view
- Fixed emissivity (0.95) covers 90% of surface applications
- Visual overrange indicator
- Size: 3.8"L x 2.0"W x 0.9"D
- Pocket size meter
- Data hold/max hold

Includes: 2 AA batteries

Part No.	Description	1	5
219361	Pocket IR thermometer	\$59.95	\$56.99

## Mini IR Thermometer

- Economical mini-size design for convenience
- Automatic data hold when measure button is released
- Maximum or minimum hold
- Field of view: 1:1
- Temperature range: -31°F to 446°F (-35°C to 230°C)
- Lock feature for continuous scanning
- Maximum resolution: 0.1°F/°C
- Fixed emissivity covers 90% of surface applications
- Auto power off
- Size: 3.0"L x 1.6"W x 0.7"D



Part No.	Product No.	1	5
1537299	IR100	\$29.25	\$28.49

## Digital Psychrometer

### External Probe Temperature Measurements for Differential

Unique sensor cap design twists to closed position for protection during storage.

- Simultaneous display of %RH, temp. and dew point or web bulb or probe temp.
- Temp. ranges: (internal) -4°F to 122°F (-20°C to 50°C); (external) -4°F to 158°F (-20°C to 70°C)
- Temp. ranges: -90.4°F to 122°F (-68°C to 49.9°C)
- Wet bulb measurement without slinging
- Calculates T1-T2 differential (air temp. minus external probe temp. using optional probe)
- Data hold freezes current reading on display
- Switchable °F/°C temp. reading
- Min./max. readings
- Size: 7.0"L x 1.9"W x 1.0"D



Part No.	Product No.	1	10
1581142	RH300	\$89.95	\$86.59
1581151	TP890 (optional thermistor temperature probe)	15.95	14.99

## Moisture Meter

- Adjustable pins for wood and other porous building materials
- Moisture content: 0 - 100
- Temp. range: 32°F to 122°F (0°C to 50°C)
- Unique dual LCD displays wall moisture and air temp. simultaneously
- Moisture content displayed on a relative scale
- Low battery indication
- Multi-position pins w/ safety storage for replaceable pins
- Selectable slide switch
- Data hold to freeze reading on display
- Calibration adjustment for better repeatability
- °C/°F switchable
- Size: 7.6"L x 1.8"W x 0.8"D



Includes: 2 AAA batteries, 10 spare pins & pouch case

Part No.	Product No.	1	10
1581134	MO100	\$59.95	\$57.45

## Combustible Gas Leak Detector

- Detects combustible gas - liquefied natural gas (LNG) and liquefied propane gas (LPG) from 500 to 6500ppm
- Convenient compact portable size
- Highly sensitive detection circuitry
- Audible and visual alarm
- LED indicators for gas leakage & static absorption
- One switch operation
- Continuous operation up to 4 hours
- Size: 6.5"L x 0.8"Dia.



Includes: 2 AAA batteries

Part No.	Product No.	1	10
1581169	FG100	\$59.95	\$58.95

## Pen DMM with Non-Contact Voltage Detector



- Large 2,000 count LCD display
- Non-contact voltage detection with visible & audible alarm
- Retractable tip for safe storage
- Auto ranging with data hold, range hold, and maximum hold
- Auto power off
- Overload & low battery indication
- Non-contact voltage range: 50VAC to 600VAC
- DC voltage ranges: 200mV to 600V with 0.1mV res.
- AC voltage ranges: 200mV to 600V with 0.1mV res.
- Resistance ranges: 200Ω to 20MΩ with 0.1Ω resolution
- Diode & continuity test
- Size: 8.2"L x 1.5"W x 1.1"D
- Weight: 0.3 lbs.

Includes: Test leads with alligator clips, two 1.5V AAA batteries, and carrying case

Part No.	Product No.	1	5
1537184	381676	\$38.99	\$37.99

## How to Test Almost Everything Electronic

**TAB Publishing** Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.



Part No.	Description	1	10
126199	How to Test Everything	\$19.75	\$17.95



## Remote & Local Continuity Tester

- Local continuity checking is accomplished by a flashing LED and pulsating beeper
- Remote continuity is accomplished with the use of a remote probe, it does not tie up two people when identifying and labeling wires and cables
- Two lead, bi-color led (red/green) is used on the remote probe that allows a single user to identify up to three wires or cables at a time
- Drives a 20mA DC current pulse through wires or cables under test for polarity identification



Part No.	Product No.	1	5
1537272	CT20	\$29.25	\$28.49



## Non-Contact AC Voltage & Current Detector



- The only 2-in-1 non-contact AC voltage and current detector
- Non-contact AC current detection range: 200mA to 1000A
- Non-contact AC voltage detection range: 12V to 600VAC
- Current sensor detects current flow through shielded wires, conduit, & metal circuit breakers/junction boxes
- Sensitivity adjustments to increase or decrease sensor trigger threshold
- Audible & visible sense detect indicators
- Detects current flow of 400mA @ 0.2" distance, longer distances for larger current flows
- Size: 7.6"L x 1.2"W x 0.9"D • Weight: 0.2 lbs.

Includes: Four LR44 button type batteries and clip

Part No.	Product No.	1	5
1537192	DVA30	\$38.99	\$37.99



## AC Circuit Breaker Finder/Receptacle Tester

- Quickly locates 110V to 125V AC circuit breaker and fuses
- Variable sensitivity adjustment to pinpoint correct circuit breaker
- Bright red and green LEDs indicate if receptacle is correctly wired for six fault conditions
- Push button GFCI test
- Audible and visual circuit breaker indication
- Eliminates circuit interruptions
- Applications: locate branch circuit breakers without flipping breakers, confirm proper wiring during installations or repairs, test receptacle ground fault operation
- Size: 8.5"L x 2.3"W x 1.5" Thick



Part No.	Product No.	1	5
1585899	CB10	\$29.95	\$29.29

Find more Meters & Testers on our website at [www.Jameco.com](http://www.Jameco.com)

## Digital Light Meter

- Measures in Lux and footcandle ranges
- Range: Lux – 0 - 50,000 Lux (3 ranges); footcandle – 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling • 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs. • One-year warranty



Part No.	Description	1	10
131764	Digital light meter	\$99.95	\$89.95

## Handheld HDTV Pattern Generator

B&K Precision's model 1253 is an affordable HDTV test pattern generator that delivers accurate test patterns for the testing of the most common HDTV displays including Plasma, LCD, TFT, CRT, DLP, GLV and OLED digital display products. The 1253 can display from its HDTV Component (YPbPr) outputs fourteen of the most useful patterns for twelve of the most commonly used video formats (S-Video output patterns provide luminance only). The 1253 displays the most popular formats including 1920 x 1080 30i, 1280 x 720 60p, 704 x 480 60p, NTSC, PAL & SECAM. A unique feature of the 1253 is the Overscan DVD Aspect Ratio pattern. This feature covers the most commonly use aspect ratios used for all movies recorded to DVD media.



BK PRECISION

- Patterns: SMPTE bars, PLUGE, needle, color bars, cross hatch, DVD Aspect Ratio, raster, multiburst, focus, staircase, window, checker, overscan
- S-video (SVHS) 5-pin DIN connector
- Y output: 1Vp-p into 75Ω
- Power source: 9V battery • Red LED power indicator
- Size: 5.6"L x 3.1"W x 1.1"H

Part No.	Description	Price
681504	HDTV pattern generator	\$595.05

## RS-232 Mini-Tester with Status LEDs

Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.



Part No.	Description	1	10	100
26729	Mini-tester	\$11.95	\$10.76	\$9.68

## RS-232 Loopback Tester

The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.



Part No.	Description	1	10	100
22728	Loopback tester	\$6.95	\$5.95	\$4.45

## Modular Cable Tester

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.



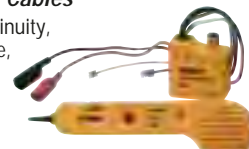
- Check for cable continuity, miswiring, open, short, grounding, and pin configurations
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

Includes: Manual and test cables

Part No.	Description	1	10
145710	Modular cable tester	\$84.95	\$76.49

## Tone Generator & Amplifier Probe For Tracing Wires & Cables

- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Output jacks for both headphones and handsets



Includes: Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002	Tone gen. & amp. probe	\$79.99	\$71.99

## ZapChecker (RF Field Strength Meter)

Detect and measure all those weak radio signals on HF, VHF, UHF or Microwave frequencies. Ideal for discovering wireless bugs and covert cameras, the ZAPCHECKER also works well to help install wireless security systems and wireless computer networks by checking where the strongest signal is.



Measure electromagnetic radiation and emissions from microwave ovens, cell phones, wireless phones, and electronic equipment. ZC-300 (P/N 667796) includes a log periodic antenna for that extra boost in locating and measuring signals and a BNC connector if you choose to use other antennas.

- Sensitivity control: 20dB, (10:1) signal control range
- Sensitivity: P/N 667796: 70μV; P/N 667817: 45μV
- Detection modes: LINEAR – for far-field detection of weakest signals: 10dB for ZC-185 and 12dB for ZC-300
- Dynamic range: LOG – for near-field localization without overloading: 60dB
- Dynamic range MID – for intermediate detection and localization: 25dB dynamic range
- Analog mode: for detecting and measuring continuously transmitted signals
- Digital mode: for detecting, identifying, and measuring digitally pulsed signals
- Silent vibrator: intensity modulated, switch-enabled vibrator for mid to high level signals
- Analog meter display for visual indication of changes and levels of RF signals
- Approximately 80 hours of battery life (2 x AA bat.)
- LED display indicators • Size: 2.1"W x 1.3"D x 5.0"H

Part No.	Description	Frequency	1	10
667796	ZC-185	3MHz-5GHz	\$158.95	\$150.95
667817	ZC-300	1MHz-8GHz	\$398.95	\$370.45

## RS-232 Line Status Tester

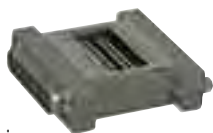
Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.



Part No.	Description	1	10	100
14285	Check line tester 	\$10.74	\$9.71	\$8.70

## Miniature RS-232 Breakout Box for Quick Design Changes

Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.



**Includes:** 25 each 22 AWG wire jumpers and machine tool sockets


Part No.	Description	1	10	100
11181	Breakout box 	\$10.74	\$9.54	\$8.34

## Flexible Multilink RS-232 Tester & Breakout Box

Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" and reconfiguration. Connectors: DB25 male & DB25 female.

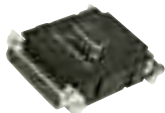
• Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

**Includes:** Handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945	Tester/breakout box 	\$27.54	\$23.94	\$21.54

## RS-232 Signal Adapter/Splitter

- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts



Part No.	Description	1	10	100
105196	Serial adapter 	\$9.54	\$8.34	\$7.14

## PC Cable-Check® Pro


This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. PC Cable-Check Pro tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.

- Easy to read LED indicators for mapping connections
- Auto power off, auto scan, and manual scan

**Includes:** 9V battery

**Paladin Tools®**

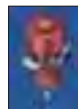




Part No.	Product No.	Price
652480	1577 	\$164.95

## Banana Jacks

- Fully insulated
- Size: .937"L x .433"Dia.
- .182" solder tab
- Chassis mounting

1582170



Part No.	Product No.	Color	1	10	100
1582170	6091 	Red	\$1.05	\$1.01	\$ .90
1582188	6092 	Black	1.05	1.01	.90




## Stackable Banana Test Lead Cables



- 5000V @ 15A • 55°C max.

**159898:** Two 36" leads, mini clip w/ banana  
 • 45VAC @ 5A max.; beryllium copper contact and glass filled insulation

**159901:** Two 24" leads **159919:** Two 36" leads

Part No.	Prod. No.	Description	1	10	25
159898	3782-36 	Mini w/ banana	\$9.95	\$9.45	\$9.00
159901	B-24-02 	Patch cord	10.65	9.58	8.51
159919	B-36-02 	Patch cord	10.65	9.58	8.51

## BNC to Minigrabber® Test Clips

- RG 174/U, .100" O.D.
- Rating: 300 V<sub>RMS</sub> max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"



Part No.	Product No.	1	10
176954	5187-K-36 	\$25.25	\$24.02

## BNC Male w/ Molded Strain Relief to Minigator® Test Clips

- RG 58C/U, .195" O.D.
- Rating: 45 V<sub>RMS</sub> max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"



Part No.	Product No.	1	10
176971	4532-C-36 	\$18.95	\$16.95




## Solderless Banana Plugs



- Nickel-plated
- ABS insulation
- Set screws secure leads
- 5000VDC @ 15A
- Sets include 1 black and 1 red
- 50°C max.

**159863:** w/ safety collar **159855:** w/ set screw


**159927:** double banana plug w/ wire guide

Part No.	Prod. No.	Description	1	10	25
159863	1825-02 	Safety collar	\$3.29	\$2.99	\$2.69
159855	1325-02 	Set screw	3.49	3.17	2.85
159927	MDP-02 	Double banana	5.15	4.89	4.64

## BNC Cables

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871: 36" P/N 159880: 60"



Part No.	Product No.	1	10	25
159871	2249-C-36 	\$16.59	\$14.97	\$13.47
159880	2249-C-60 	16.79	15.95	14.95

## PC Test Points

- Straight
- Solder
- Minimum order 5 pieces

**1581601/1581951:**

• .118"W

**1581960:**

• .094"W




• 25µ" thick

• 20µ" thick

1581601



1581960

Part No.	Product No.	Description	5	50
1581601	1033 	Looped, .171"L	\$ .10	\$ .095
1581951	4951 	Slotted, .275"L	.053	.05
1581960	4953 	Looped, .355"L	.064	.06

## Test Jacks

- Current rating: 5A
- Accepts .080" tip
- Black

**1582145/1582153:** Vertical

• Size: .312"L x .187"Dia.

**1582161:** Horizontal




• Size: .208"L x .203"H x .147"W



1582145



1582161

Part No.	Product No.	Description	1	5	50
1582145	6038 	PC Mount	\$ .51	\$ .48	\$ .45
1582153	6040 	Snap-fit	1.36	1.27	1.16
1582161	6050 	PC Mount	.74	.72	.70

## Looped Color Coded Test Points

- Phosphor bronze, silver plated wire
- Snap-fit mount
- PBT, UL94V-0
- Minimum order 5 pieces



1581986



1582006



1582014






1582049






1582073





## Miniature (.300" L, .040" Dia. Mtg. Hole)

Part No.	Product No.	Color	5	50
1581986	5001 	Black	\$ .133	\$ .124
1581994	5002 	White	.157	.147
1582006	5004 	White	.238	.214

## Compact (.350" L, .063" Dia. Mtg. Hole)

Part No.	Product No.	Color	5	50
1582014	5005 	Red	\$ .175	\$ .164
1582022	5006 	Black	.199	.186
1582031	5007 	White	.15	.141

## Multipurpose (.445" L, .063" Dia. Mtg. Hole)

Part No.	Product No.	Color	5	50
1582049	5010 	Red	\$ .237	\$ .213
1582057	5011 	Black	.179	.168
1582065	5012 	White	.175	.164
1582073	5014 	Yellow	.234	.211

Find more at [www.Jameco.com](http://www.Jameco.com)

## JAMECO BenchPro 1 1/4" Banana Plugs

- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.

Includes: One red and one black plug

Part No.	Description	1	10	100
72195	Banana plugs 	\$1.59	\$1.49	\$1.25

## JAMECO BenchPro 2 1/4" Banana Plugs

- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W • Set-screw connection

Includes: One red and one black connector

Part No.	Description	1	10	100
137526	Banana plugs 	\$2.95	\$2.12	\$1.84



## JAMECO BenchPro Double Banana Plugs

- Dual gold-plated female banana plugs • Stackable

Part No.	Description	1	10	100
125210	Black banana conn. 	\$3.18	\$2.70	\$2.03
125218	Red banana conn. 	3.15	2.82	2.54

## JAMECO BenchPro BNC to Standard Double Banana Plugs

Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11440	BNC banana plug (F) 	\$5.94	\$5.39	\$4.79
125225	BNC banana plug (M) 	7.26	6.17	4.64

## JAMECO BenchPro BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.



- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector

Part No.	Description	1	10	100
11384	BNC cable 	\$4.05	\$2.89	\$2.61

## JAMECO BenchPro BNC to Clip Test Cables

BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip • Length: 39"

Part No.	Description	1	10	50	100
11422	Micro-clip RG174 	\$3.99	\$3.19	\$2.89	\$2.59
11464	Mini-clip RG174 	4.39	3.99	3.59	3.19


## Banana-to-Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package • 18 AWG wire

Part No.	Description	1	10	25
77842	Test leads 	\$22.95	\$20.69	\$18.59

## JAMECO BenchPro Double-Banana Plug to Alligator Clips Test Cable


- Red & black rubber boot
- 4" lead wire
- Length: 3"

Part No.	Description	1	10	50	100
107423	Test cable 	\$4.74	\$4.19	\$3.54	\$2.99

## JAMECO BenchPro 1" Screw-Type Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount w/ lock washer and nut • Solder tab hole: 0.06"Dia.
- Size: 1.0"L x 0.5"Dia.


Requires: 0.32" mounting hole  
Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71240	Binding posts (2) 	\$1.05	\$0.90	\$0.74	\$0.63

## JAMECO BenchPro 1 3/4" Screw/Solder Binding Posts



- For both wire & standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.06"Dia.
- Size: 1.8"L x 0.5"Dia.

Includes: One red and one black

Part No.	Description	1	10	100	1000
77691	Binding posts (2) 	\$1.31	\$1.14	\$1.10	\$1.05

## JAMECO BenchPro Mini Test Clips

- Two lengths
- Includes: One black and one red hooked probe clip

Part No.	Description	1	10	100
114809	1.75" mini test clips 	\$2.19	\$1.71	\$1.55
114818	3.5" mini test clips 	2.10	1.79	1.35

## JAMECO BenchPro Micro Test Clip

- One piece per package

Part No.	Description	1	10	100
153162	1.6" micro test clip 	\$0.95	\$0.81	\$0.69

## JAMECO BenchPro Mini-Clip to Banana Test Cables


- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- 20 AWG insulated wire
- Length: 3.5"

Part No.	Description	1	10	100
21857	Black test cable 	\$3.95	\$3.55	\$2.99
21865	Red test cable 	3.95	3.49	2.99

## JAMECO BenchPro Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100
135299	Mini test leads 	\$11.49	\$10.39	\$9.29

## JAMECO BenchPro Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100
10444	Alligator leads 	\$4.39	\$3.95	\$3.56

## JAMECO BenchPro Insulated Alligator Clips


- Color-coded • Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw
- Size: 2.3"L x 0.5"W

Includes: One red and one black clip

Part No.	Description	1	10	100
70991	Alligator clips 	\$0.39	\$0.36	\$0.33

## JAMECO BenchPro Alligator Clips

- Sold in increments of 2
- 248921: 1.2"L x 0.3"W
- 256525: 1.9"L x 0.2"W
- 248939: 1.6"L x 0.3"W

Part No.	Description	2	4	10
248921	Mini clip solder/crimp 	\$0.336	\$0.30	\$0.276
256525	Alligator clip, barrel/screw 	.45	.38	.35
248972	Red ins. for 248939/256525 	.255	.245	.235

## JAMECO BenchPro BNC Female Connector with 20AWG Lead Wires

Solder the 20AWG wires onto your protoboard, plug the BNC female connector into your test equipment and you have an instant testing board for varied applications.

- BNC female connector • 7" 20AWG lead wires

Part No.	Cross Ref. No.	1	10	100
256831	CBB-069 	\$5.39	\$5.15	\$4.89

## JAMECO BenchPro Universal Test Lead Kit

- Includes:
- 3' black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516	Universal kit 	\$8.95	\$7.61	\$5.71

**JAMECO**  
BenchPro

## Panel Mount Tip Jacks 1/4" – 32 Thread

Mounts in panels ranging in thickness from 0.063" to 0.375".

- Plating: bright tin • Material: brass
- Insulation: polycarbonate • 10 per package

Part No.	Cross Ref. No.	Color	1	10	100
256779	R1-17-BLK	Black	\$8.59	\$8.15	\$7.75
263864	R1-17-RED	Red	8.59	8.15	7.75

**JAMECO**  
BenchPro

## Double Binding Posts – Dual Banana

- Red/black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W

Part No.	Description	1	10	100
125197	Double bind post	\$4.74	\$4.14	\$3.83

**JAMECO**  
BenchPro

## BNC to Double Binding Posts – Dual Banana

- Red/black design

Part No.	Description	1	10	100
125233	BNC-female	\$5.94	\$5.39	\$4.86
99354	BNC-male	5.29	4.76	4.28

**JAMECO**  
BenchPro

## Protected Banana Style Multimeter Test Probes

- Threaded/pointed test tip
- Black and red
- 18 AWG wire • 42" long
- 2 per package

Part No.	Description	1	10	25
77738	Protected probes	\$6.49	\$5.85	\$5.25

**JAMECO**  
BenchPro

## Standard Banana Style Multimeter Test Probes

- Black and red
- 18 AWG wire
- 2 per package • 42" long

Part No.	Description	1	10	25
77746	Std. banana probes	\$7.69	\$6.95	\$6.25

**Pomona**

## Replacement Probe Test Lead Set

- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors

Part No.	Product No.	1	10	25
155951	5519A	\$14.99	\$13.69	\$12.99

**Pomona**

## 11"L Test Lead Holders

155985:

- Max cable dia.: 0.450"

155977:

- Max cable dia.: 0.320"

155969:

- Max cable dia.: 0.210"

Part No.	Prod. No.	Slots	Color	1	10	25
155985	2708B	9	Blue	\$11.29	\$10.99	\$10.25
155977	4408	10	Black	11.49	10.69	9.99
155969	1508	14	Orange	12.95	11.75	10.79

**Pomona**

## Minigrabber® Test Clip Patch Cord Kit

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends

Part No.	Prod. No.	Description	1	10
156494	5523	Patch cord (hook)	\$43.74	\$40.23

**PROBE MASTER**

## Probe Test Leads

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"

**174625 Includes:**  
10 plunger type tips

**212222 Includes:**  
10 pieces; screw-on alligator clips, spade lugs and spring hooks

Part No.	Description	1	10	25
174625	Micro tip test leads	\$36.35	\$34.52	\$33.14
212222	Softie test leads	24.79	23.56	22.41

## 40-Piece Electronic Tech Tool Kit

- The kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - Potentiometer alignment tools
  - T10-T25 reversible Torx screwdriver bits
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - 10-pc screwdriver set
  - Extra long 3-claw parts holder
  - IC inserter w/ pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.

**Quantity SAVE**

Part No.	Description	1	10	25
119183	40-piece tool kit	\$21.95	\$18.66	\$14.00

## 51-Piece Tech Tool Kit

Essential kit for electronic machine maintenance and repair jobs!

- In addition to the tools listed in the matrix right, the kit includes:
  - 2 nut drivers
  - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.

Part No.	Description	1	5
26681	51-piece tool kit	\$99.95	\$81.95

See [www.Jameco.com](http://www.Jameco.com) for complete tool kit specifications

### More Test Products and Tool Sets online at

## [www.Jameco.com](http://www.Jameco.com)

## 57-Pc. Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- Kit includes:
  - 5" & 6" side cutter
  - 5" & 6" long nose pliers
  - 8" combination pliers
  - 9.5" water pump pliers
  - Testing driver
  - Alignment driver
  - Parts tube
  - 5-piece file set
  - 6" stainless scissors
  - Solder wick
  - PVC insulated tape
  - Oil can
  - Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.

Part No.	Description	1	5
218245	Master electronic tool kit	\$130.99	\$120.99

## 100-Piece Professional Electronics Tool Kit

Kit for field technicians and engineers!

- Kit includes:
  - Computer/polarity circuit tester
  - Mini vacuum cleaner
  - Cassette head cleaning fluid
  - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5
242851	100-piece tool kit	\$199.95	\$189.95

## 114-Piece Tech Service Tool Kit

- Kit includes:
  - 40-pc socket pack
  - 6" side cutter
  - 6" long nose pliers
  - 6" slip joint pliers
  - Carpenter hammer
  - 3 piece trimmer set
  - Stainless steel spring hook
  - 8" combination pliers
  - Solder wick
  - 2 removable pallets
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024	114-piece tool kit	\$289.99	\$259.99

## Heavy-Duty Tool/Equipment Case

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.

- Size: 19.0"L x 14.0"W x 6.0"D

Part No.	Description	1	5
261877	Tool/equipment case	\$48.59	\$44.15

# Tool Cases, Heat Guns & Miscellaneous Hand Tools

Color Code Legend			
New	Sale	Lower\$	QtySave



## Tool Cases and Bags

All Platt products feature a one-year warranty from date of purchase against manufacturing defects.



### Blow Molded Cases

- High-density polyethylene
- Double wall construction
- Color: black

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
692887	207R	9.5 x 6.0 x 2.7	\$14.99	\$14.92
692895	307R	11.0 x 7.0 x 3.4	28.35	26.93
692908	407R	12.4 x 8.9 x 5.1	36.35	34.54
692916	507R	13.9 x 9.9 x 4.0	37.45	36.99

### Mechanics Tool Bags

- Water-repellent Cordura fabric
- 8 sewn-in pockets on the inside
- 2 divided snap pouches on the outside
- Outside dimension: 12.0"L x 6.0"W x 6.5"H

Part No.	Product No.	Color	1	10
693100	MTB-R	Black	\$20.65	\$19.38
693118	MTB-BLU-R	Blue	23.69	22.51

### Medium Duty ABS Cases

Modern look of heavy duty grained ABS with extruded aluminum frame, deluxe golf grip handle, cast chrome key locks and piano hinge.

- Color: black
- Inside depth: 4.0"

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
692959	2207R	22.0 x 16.0 x 7.0	\$123.29	\$119.99
692967	2407R	24.0 x 18.0 x 7.0	138.19	135.99
692975	2807R	28.0 x 20.0 x 7.0	154.45	149.99

### Heavy Duty ATA Cases with Wheels and Telescoping Handle

- Color: black
- Inside depth: 5.5"

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
693011	221609AH-R	19.6 x 13.5 x 9.0	\$266.85	\$254.99
693038	282011AH-R	27.5 x 19.5 x 11.0	316.65	299.99

### Heavy Duty Polyethylene Cases

The exterior shell is tough, impact-resistant HMW polyethylene. Features heavy-duty aluminum rim with black trim and gasket with cast chrome key locks, and deluxe golf grip handle.

- Color: black
- Inside depth: 4.0"

Part No.	Product No.	Inside Dim. (L"xW"xH")	1	5
692983	181307R	18.5 x 12.5 x 7.0	\$123.75	\$114.99
692991	201407R	19.6 x 13.5 x 7.0	151.55	144.99
693003	282007R	27.5 x 19.5 x 7.0	197.75	184.99

Blue Part No. = Limited Quantity Available

More Platt Cases Online at [www.Jameco.com](http://www.Jameco.com)

## Weller® 250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord



Part No.	Product No.	Wt. (lbs.)	1	10
191943	6966C-R	1.2	\$135.85	\$121.42

## 1000-Watt Heat Gun

- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks, and loosen rusted bolts
- Input voltage: 110-120VAC



Part No.	Description	1	6	12
254925	Heat gun-R	\$42.55	\$41.10	\$36.85

## Heat Gun/Stripper

### Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed • Weight: 1.8 lbs. • Size: 9.3"L x 7.0"W



Part No.	Description	1	10	25
76865	Heat gun	\$39.95	\$35.95	\$31.95
217816	Heat shrink attachment	1.95	1.66	1.25

## Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	10	25
26702	GTT-103A drill	0.8	\$33.55	\$30.18	\$26.82
26711	GTT-104 stand	1.8	26.34	23.70	21.06

## PC Board Drill Bits

- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Shank dia.: .125"
- Use for drilling holes in glass PC boards



Quantity SAVE

Part No.	Drill Dia.	No.	Application	1	10	100
16619	.021"	75	Misc.	\$1.55	\$1.32	\$ .99
16580	.040"	59	Plated thru holes	1.75	1.49	1.12

## 9-Piece Drill Bit Kit

- Variety of sizes: .014" to .126"
- Shank diameter: .125"
- Each kit will vary in contents of bit sizes



Part No.	Description	1	10	50
131676	9-piece drill bit kit	\$9.95	\$8.95	\$7.95

## 32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

**Includes:** Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver



Part No.	Description	1	10
223829	32-piece security bit set	\$11.95	\$10.75



## Pocket Screwdriver

### Phillips & Flat head

- Size: 6"L
- Pen clip for pocket storage



Part No.	Description	1	10	100
127271	Pocket screwdriver	\$1.55	\$1.45	\$1.19

## 6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T19 x 50mm Torx hex screwdrivers



Part No.	Description	1	5
226106	Precision TORX screwdriver	\$12.95	\$9.74

## 6-Pc Precision Screwdriver Sets

- 34041 includes: 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers
- 34059 includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers



Part No.	Description	1	10	50
34041	Slotted set	\$3.59	\$3.05	\$2.28
34059	Phillips set	3.59	3.05	2.29

## 6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L; 0.12"Dia. x 6.6"L; 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L



Part No.	Description	1	10	50
99451	6-pc. screwdriver set	\$8.95	\$8.06	\$7.25

## 7-Pc Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips

**Includes:** 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips



Part No.	Description	1	5
261999	Screwdriver set	\$17.95	\$16.15

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

**Precision 5-Piece  
Stainless Steel Pliers Set**

- Spring return
- Insulated handles

**Includes:**

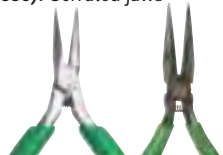
One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73121	5-piece set	0.6	\$18.15	\$16.32	\$14.69

**Xcelite® Needle Nose Pliers**

**217891 (submini needle nose):** Serrated jaws

- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas



**217998:** Smooth jaws  
• General purpose for pick-up and wire forming

Part No.	Prod. No.	Description	1	10
217891	L4	4" mini needle nose	\$14.95	\$13.69
217998	LN54G	5" thin long nose	\$15.05	\$13.97

**Half-Round  
Long Nose Pliers**

- Drop forged steel
- Spring return action
- Length: 4.5"
- Heat treated
- Vinyl grips
- Knurled jaws



Part No.	Description	1	10	50	100
177608	Half-round pliers	\$4.95	\$4.49	\$3.95	\$3.59

**Xcelite® Cutters and Pliers**

- Spring returns

**146712:** Micro series wire cutter – flush; 6"

**146739:** Diag. wire cutter – semi-flush; 4"

**146721:** Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712	170M	\$5.99	\$5.49	\$4.99	\$4.59
146739	MS54V	\$12.29	\$11.99	\$11.79	\$11.59
146721	MN7776V	\$14.99	\$14.49	\$14.25	\$13.99

**4.3" Diagonal Wire Cutter**

- Cuts component wire up to 1.2mm thick
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade
- Stainless steel



Part No.	Description	1	10	50	100
35482	Wire cutter	\$5.59	\$4.99	\$4.55	\$3.99

**5" Diagonal Wire Cutter**

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Description	1	10	25
161411	Wire cutter	\$7.49	\$6.74	\$6.07

**Xcelite® Diagonal Cutters**

Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.

- Flush cutting edge
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort



Part No.	Product No.	Description	1	10
217921	MS54J	4" oval head-flush	\$18.79	\$16.94
1536974	S475NJS	4" relieved head-flush	\$14.95	\$13.68
217904	MS549J	4" tapered head-flush	\$15.09	\$14.56
217867	MS545J	4" slim line tapered head-flush	\$14.59	\$12.99

**Xcelite® Shearcutter/Pliers Set**

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L



Part No.	Product No.	1	10	25
152055	S2K	\$15.99	\$14.99	\$13.99

**5" Wire Cutter/Strippers**

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

**78992:** 10-30 AWG (screw adjustable)

**215889:** 10-24 AWG (dial to adjust for wire gauge)



Part No.	Cross Ref. No.	1	10	50	100
78992	HT108	\$3.95	\$4.01	\$3.39	\$2.98
215889	JE-2022C	\$3.95	\$3.49	\$2.95	\$2.59

**6" Wire Cutter/Strippers**

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

**161226: Premium**  
• 12-20 AWG stranded;  
• 10-18 AWG solid

**161234: Premium**  
• 16-26 AWG stranded;  
• 14-24 AWG solid

**161218: Standard**  
• 16-26 AWG stranded; 14-24 AWG solid

- Color: red

Part No.	Product No.	Description	1	10
161226	ID45-215	Cushioned grips	\$18.39	\$17.50
161234	ID45-216	Cushioned grips	\$17.05	\$16.37
161218	ID45-121	Non-cushioned grips	\$14.29	\$13.60

**Hand Tools for Mini-Fit™ Jr.**

**304928:** Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	5
304928	63811-1000	Crimp tool	\$47.29	\$45.46
304936	11-03-0044	Extraction tool	\$19.99	\$18.99

**Automatic Wire Stripper**

- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.



**Includes:** Wire stopper for desired strip length

Part No.	Description	1	10	25
175098	Strips 8-22 AWG	\$16.95	\$15.26	\$13.73

**Rotary Coax Cable Strippers****2 and 3 Blade**

**159119 (3 Blade):**

**2 settings** RG58/59/62

- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black



**159185 (2 Blades):** 4 settings RG58/59/62/174

- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
- Color: gray



**Includes:** Hex key wrench for adjusting blade

Part No.	Product No.	1	10	25
159119	HT312B (3 blade)	\$13.95	\$11.86	\$8.89
159185	HT332D (2 blade)	\$13.95	\$12.56	\$11.30

**Ratcheted Modular  
Connector Crimping Tool**

- Insulated grip
- Ratcheted type
- Metal
- 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.



Part No.	Description	1	10	25
159312	RJ45/11/12	\$21.95	\$19.95	\$17.95

**Ratcheted BNC Crimping Tool**

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- All steel construction
- Size: 8.5"L x 2.5"W
- Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114535	HT-336G	\$25.15	\$23.32	\$20.99

**D-Sub Crimping Tool  
20-28 AWG**

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377 & 43369, pg 116 & 100766, pg 156
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	25
159266	HT213	\$10.95	\$9.89	\$8.89

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend

New Sale Lower\$ QtySave

## Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W

Part No.	Product No.	1	10	25	100
99443	HT202A	\$9.49	\$8.55	\$7.69	\$6.95

## T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

Part No.	Description	1	10	25
151750	T-handle reamer	\$7.95	\$7.49	\$6.95

## Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
  - Size: 6.3"L x 2.8"W x 1.4"H
- Includes:** 13 types of blades

Part No.	Description	1	10	25
72768	13 blade knife set	\$10.95	\$9.86	\$8.87

## Strip-Wrap-Unwrap Tool

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 103 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long

Part No.	Cross Ref. No.	1	10	25
34585	HSM30 (Modified)	\$59.49	\$53.54	\$47.58
236785	HSR30 (Regular)	30.55	25.97	19.47

## Impact Punch-Down Tools

- Reversible clip-in blade
  - Adjustable (HI-LO) spring-loaded impact mechanism
  - Storage bin on handle for spare blade
- 175071: Tool with blade**
- For 66-type terminals
  - Size: 5.2"L x 1.5"W x 1.0"H
- 324014: Tool with blade**
- For 110-type terminals
  - Size: 5.8"L x 1.7"W x 1.2"H
- 175089: Punch-down blade 110-type terminals**

Part No.	Description	1	10
175071	Tool with 66 blade	\$35.99	\$32.40
324014	Tool with 110 blade	49.35	38.69
175089	Punch-down blade 110	14.95	13.49

More Tools at  
[www.Jameco.com](http://www.Jameco.com)

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Digital Display Caliper

Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty

**Includes:** Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 203)

Part No.	Description	1	10	25
127482	Digital disp. caliper	\$69.25	\$66.28	\$64.62

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

Part No.	Cross Ref. No.	Description	1	10	50
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115107	HEM01	Straight	\$3.49	\$3.14	\$2.83
115115	HEM02	Curved	3.95	3.56	3.20

## 4-Piece Conductive SMD Tweezer Set

- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10	25
172638	4-piece tweezer set	\$11.95	\$10.95	\$9.95

## 4-Piece Steel Tweezer Set

- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
10735	4-piece tweezer set	\$7.95	\$6.95	\$5.95

## PLCC and DIP IC Extractors

- Size: 4.0"L x 2.0"W (both)

- Size: 3.3"L x 1.5"W x 0.4"H
- Includes:** Ground terminal

Part No.	Description	1	10	100
99363	IC straightener	\$7.69	\$6.94	\$6.24

## Metal Dial Calipers

Choose Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal
- Color: silver

**Includes:** Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116126	Inches (.001 inch)	\$29.95	\$25.46	\$19.10
684449	Metric/Inches	43.75	39.35	35.41

## 3X, 3-Bulb Magnifying Lamp

- Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles.
- Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand.
- The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed
- Weight: 8.15 lbs.

Part No.	Description	1	10	25
217517	Adj. magnifying lamp	\$79.95	\$74.95	\$69.95

## General Purpose Illuminated 3X Magnifier

- Great for magnifying fine print
- 75mm diameter lens
- Light requires 2 AA batteries
- Size: 7.5"L x 3.75"Dia.

Part No.	Description	1	10	25
149542	Illuminated magnifier	\$3.15	\$2.99	\$2.84

## Precision 5 Diopter Magnifying Lamp

- The arm extends to 40", is adjustable to any direction or angle, and has a 5 diopter.
- This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.
- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

**Includes:** 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456	Magnifying lamp	\$109.95	\$98.95	\$88.95

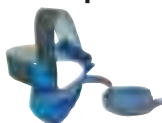
## 3X Magnifying Lamps


- 45" extension arm
- Supplied with 22-watt circuline tube
- Extra strong, all-metal mounting base with electrical outlet
- New wire clip design permits easy installation
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz
- 3-diopter lens
- Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829	Black lamp	\$59.95	\$53.95	\$49.95
149981	White lamp	59.95	53.95	49.95

## Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L



Part No.	Description	1	10	100
100328	Heel strap 	\$5.99	\$5.43	\$4.96

## Protective Coiled Grounding Wrist Strap

- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long
- Color: black



**Includes:** 1MΩ resistor for added safety



Part No.	Description	1	10	100
34552	Anti-static strap 	\$6.49	\$5.85	\$5.29

## Conductive Anti-Static Foam and Bags

**Don't get zapped!**

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

**13864:** 24.0"L x 12.0"W x 0.25"H


Part No.	Description	1	5
13864	Anti-static foam 	\$9.29	\$8.35
78650	8" x 10" anti-static bags 	.69	.59

## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.







**Includes:** ST3 1/8" screwdriver tip and manual

Part No.	Prod. No.	Description	1	10
146595	WLC100 	Soldering station	\$46.99	\$44.99

## Weller® Soldering Tips



**Replacement Tips for WLC100, WP25 & WP23**

Part No.	Prod. No.	Description	1	10
146608	146616	146624		
146608	ST1 	Screwdriver tip 1/16" ...	\$5.45	\$4.86
146616	ST3 	Screwdriver tip 1/8" .....	5.45	4.86
192145	ST6 	Screwdriver tip .031" .....	4.29	4.19
146624	ST7 	Conical tip 1/32" .....	4.99	4.26

## SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F • 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.








Part No.	Description	1	10	25
168583	Tip .078" 	11.95	10.79	9.69
168591	Tip .590" 	12.95	11.69	10.49

## Weller® 42-Watt Controlled-Output Soldering Station

- Transformer powered soldering station complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components • 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.



**Includes:** Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552	WTCP 	Solder station .....	\$138.95	\$134.95
192161	TC2011 	Replac. iron .....	74.65	71.95
192170	PTA6 	.062" screwdriver tip (600°F) .....	5.75	5.46
192188	PTA7 	.062" screwdriver tip (700°F) .....	5.99	5.47
192196	PTA8 	.062" screwdriver tip (800°F) .....	5.69	5.15

## 60-Watt Analog Display Soldering Station



Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.



**Includes:** One 1/16" tip (P/N 35115, pg 230)




**236460:** Replacement sponge

Part No.	Product No.	1	10	25
236110	168-3C 	\$89.95	\$79.95	\$72.95
236460	78-744615 	2.99	2.69	2.49

## SMD Rework Station

- High-performance, inexpensive, versatile
- Adjustable temp.: 250-450°C (482-842°F)
- Long-life ceramic heating element
- Rapid heat-up and recovery
- Thermocouple sensor for stable temperature • Size: 7.4"L x 5.0"W x 3.3"H
- 40W station, 25W ceramic element • Weight: 2.6 lbs



Part No.	Description	1	10	25
224629	Rework station 	\$89.95	\$80.99	\$72.85
168583	.078" tip 	11.95	10.79	9.69
168591	.590" tip 	12.95	11.69	10.49

Find more Soldering Stations on our website at [www.Jameco.com](http://www.Jameco.com)



## 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.







**Includes:** PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Product No.	Description	1	10
217461	WES51 	Analog .....	\$120.49	\$116.15
233533	WESD51 	Digital .....	158.95	150.99

## Weller® Soldering Tips

**Replacement Tips for WES51 & WESD51**

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Additional tips can be special ordered



Part No.	Prod. No.	Description	1	10
16774	16782	16803	16811	
16774	ETA 	Screwdriver 1/16" .....	\$6.95	\$6.25
16782	ETJ 	Long screwdriver 1/32" ....	6.95	6.25
16803	ETR 	Narrow screwdriver 1/16" .....	5.95	5.65
16811	ETS 	Long conical 1/64" .....	5.95	5.65

## 16 to 30-Watt Variable Soldering Iron, Stand & Sponge

- Length: 7.5"

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" diameter

**Includes:** Sponge


Part No.	Description	1	10	100
116572	Soldering iron 	\$16.95	\$15.29	\$13.75
36329	Soldering stand 	4.95	4.46	4.01
134631	Sponge (for P/N 36329) .....	2.99	2.69	2.49

## Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • 25-watt power consumption
- Interchangeable tips (pg 230) • UL listed
- Length: 8.0" • One-year warranty

**Includes:** 1.6mm conical tip

Part No.	Description	1	10	25
129040	25W solder. iron 	\$13.15	\$12.71	\$11.41

# Soldering/Desoldering Stations & Accessories

Color Code Legend  
New Sale Lower\$ QtySave



## 60-Watt Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at  $\pm 6^\circ\text{F}$
- Electronic temperature control from  $392^\circ$  to  $878^\circ\text{F}$
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

Includes: One 1/16" tip (P/N 35115 – below)

Part No.	Product No.	Description	1	10	25
236101	XY9-60D/ESD	Digital soldering station – ESD safe	\$109.95	\$99.95	\$89.95
219627	XY9-60A	Analog soldering station	99.95	89.95	79.95
168401	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	74.95	67.46	60.71
168583	46-060102	Tip .078" for P/N 168401	11.95	10.79	9.69
168591	46-060115	Tip .590" for P/N 168401	12.95	11.69	10.49
236460	78-744615	Replacement sponge for both stations	2.99	2.69	2.49

ESD Safe!



## 60-Watt Desoldering & Soldering Station

### Special 5% Bundle Savings

Complete ISO 9000 digital station –  
P/N 236101 & 125508  
Sold separately \$409.90

Combined: P/N 207263 **\$388.95**

- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes
- Size: 9.2"L x 7.2"W x 3.6"H • Weight: 13.1 lbs.

Includes: XYD12 tip and solder holder

• 207271 For use w/ models 136, 136ESD, 137ESD & 988

Part No.	Product No.	Description	1	10	25
125508	968	Desoldering station	\$299.95	\$269.99	\$242.99
207271	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221	D1A60A	Replacement desoldering iron	74.95	63.71	58.20
168583	46-060102	Tip .078" for P/N 207271	11.95	10.79	9.69
168591	46-060115	Tip .590" for P/N 207271	12.95	11.69	10.49
236460	78-744615	Replacement sponge	2.99	2.69	2.49



## 45-Watt Analog Display Soldering Station

### Grounded Soldering Tip

- 500°F to 850°F • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100M $\Omega$
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.

Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

Part No.	Product No.	Description	1	10	25
229673	XYT379-C	45-Watt soldering station	\$59.95	\$53.95	\$48.95
156814	XYB01	Sharp conical chisel 1/32" tip	4.95	4.49	3.95
134631	SP715	Replacement sponge	2.99	2.69	2.49

More Soldering Stations at [www.Jameco.com/Prod/SolderingStations](http://www.Jameco.com/Prod/SolderingStations)

### Replacement Sponges for Legacy Models

Part No.	Product No.	For Station	1	10	100
134640	SP815	168-3C	\$2.99	\$2.55	\$1.95
134631	SP715	XY-60D, XY-379 & XYT379-C	2.99	2.69	2.49

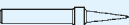




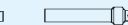
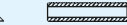




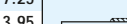




## Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

Part No.	Product No.	1	10	25
224611	200PHG-25W	\$7.95	\$7.15	\$6.45
224602	200PHG-40W	8.95	8.06	7.25
195223	200PHG-60W	13.95	12.49	12.11
226000	44-240517 tip	.95	.81	.61
226000	chisel; 226018 conical	.95	.85	.79
226026	44-240617 tip	1.95	1.79	1.59
226026	chisel; 226034 conical	1.95	1.79	1.59

## Tips & Replacement Parts for XYTronic Soldering and Desoldering Products

																
35326	35078	35334	35115	35238	140231	156814	207327									
		For XYTronic Model Numbers (*Legacy Models)														
Part No.	Cross Ref. No.	Description	259VL	136ESD	200GX 200PHG 168 *	379	XY900W AESD /DES0	960D *	968	999SDA *	JS258 *	168-3C	Pricing			207298
													1	10	25	
35326	XY401	Soldering tip - conical bevel 1/32"	✓		✓	✓		✓	✓	✓	✓	✓	\$4.49	\$3.95	\$3.65	
35078	XY402	Soldering tip - semi-chisel 1/32"	✓		✓	✓		✓	✓	✓	✓	✓	4.49	3.95	3.65	
35334	XY403	Soldering tip - conical sharp 1/64"	✓		✓	✓		✓	✓	✓	✓	✓	4.49	3.95	3.65	
35115	XY404	Soldering tip - conical chisel 1/16"	✓		✓	✓		✓	✓	✓	✓	✓	4.49	3.95	3.65	
35238	XY405	Soldering tip - semi-chisel wide 1/8"	✓		✓	✓		✓	✓	✓	✓	✓	4.49	3.95	3.65	35318
140231	XY430	Soldering tip - SMD flat pack 7/32"	✓		✓	✓		✓	✓	✓	✓	✓	8.95	7.95	7.25	
156814	XYB01	Soldering tip - sharp conical chisel 1/32"		✓			✓						4.95	4.49	3.95	
207327	XYB03	Soldering tip - conical sharp 1/64"		✓			✓						4.95	4.49	3.95	
207298	XYB05	Soldering tip - semi-wide chisel 1/8"		✓			✓						4.95	4.49	3.95	
35297	XY37	Heating element - (nichrome)			✓	✓		✓		✓		✓	20.95	18.95	16.95	
35318	XY48	Assembly - 60W w/ nichrome heater			✓	✓		✓		✓		✓	30.95	27.95	24.95	127642
127634	XYD10	Desoldering tip - 1.0mm (.0394")						✓	✓	✓			8.95	7.95	7.25	
127642	XYD12	Desoldering tip - 1.2mm (.0472")						✓	✓	✓			8.95	7.95	7.25	
127651	XYD15	Desoldering tip - 1.5mm (.0586")						✓	✓	✓			9.05	8.03	7.32	
																127651

## Soldering Kit

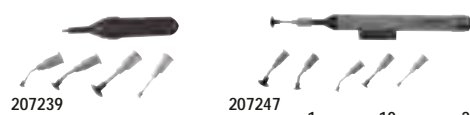
Includes: 100W soldering gun with extra tip, 30W soldering iron, manual desoldering pump, mini third-hand board/component holder, lead solder, and soldering aid tool.



Part No.	Description	Size	Weight (lbs.)	Price
684596	GSR-600A	13.8"L x 11"W x 3"H	4.0	\$32.55

## Vacuum Pen Tools

- ESD safe body
- Picks up components with weight of 1.1 lbs. or less



Part No.	Description	1	10	25
207239	Handivac tool (4 tips and cups)	\$21.99	\$19.79	\$17.81
207247	Pen vac tool (6 tips and cups/aluminum body)	37.95	34.25	30.49

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Weller® High-Quality 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"
- 120VAC @ 60Hz

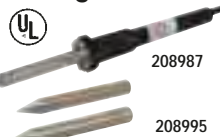


Includes: Power cord & ST3 tip (pg 229)

Part No.	Product No.	Description	1	10
170587	WP25	25W solder iron ...	\$35.65	\$34.43
192102	WP35	35W solder iron ...	44.85	43.34
192153	PH25	Solder iron stand ...	18.19	17.79

## 35-Watt Soldering Iron

- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1"
- 110-120VAC



Part No.	Description	1	10	100
208987	35W soldering iron	\$3.49	\$3.04	\$2.77
208995	Replacement tips (2)	.99	.84	.63
209075	Solder roll, 8mm (.031")	27.35	24.61	19.68

Velleman

## Butane Powered Cordless Soldering Iron

- Cordless, simple operation
- Built-in on-off switch
- Length: 8.5"
- Can be used as a torch or hot blower
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load



Part No.	Product No.	Description	1	10
645520	GASIRON2	Soldering iron	\$29.55	\$28.15

## Weller® Digital Soldering Stations

- 684772:
- New WP80 soldering pencil offers 80 watts of power with short tip-to-grip (52mm)
  - 80W of power
  - Barrel can be exchanged with optional longer version to work at standard length (65mm)
  - Unique silver heater allows fast, efficient soldering
  - Uses WP80 soldering pencil and WDH10 soldering stand
  - Size: 15.4"L x 10.2"W x 5.2"H
  - Weight: 8.2 lbs.
- 684781:
- Extensive special functions menu allows you to use setback, lockout, standby, auto-off time and more
  - Heating element is contained in pencil rather than tip
  - Micro pencil with short tip-to-grip (37mm) puts you close to the work
  - Iron stand has adjustable tilt angle in 4 positions ranging from 30° to 80°
  - Uses WMP soldering pencil and WDH20 iron stand
  - Size: 15.9"L x 10.9"W x 5.8"H
  - Weight: 7.5 lbs.



Part No.	Product No.	Description	1	5
684772	WD1002	80W	\$279.95	\$269.95
684781	WD1001	85W	279.95	269.95

## Weller® Cordless Soldering Iron Kit

- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting



Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Product No.	Description	1	5
152207	PSI-100K	Tool kit	\$81.99	\$78.79

## Pro Cordless Coldheat Soldering Iron

Using the patented Coldheat™ system, the Weller Pro Cordless melts solder instantly and is cool to the touch in just seconds. The Weller Pro has the power industrial professionals need to tin wire as large as 12AWG or join wires from 18-25AWG, with an average yield of 700 solder joints per 5 AA alkaline batteries.

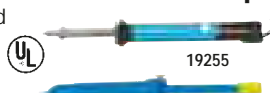
- Polycarbonate body
- Bright white LED light
- Includes carrying case and CHT3 61° angle chisel tip
- Requires 5 AA alkaline batteries
- High/low/off power switch
- Red "in use" indicator light



Part No.	Product No.	Description	1	5
684705	CHT100	Cordless soldering iron ...	\$40.29	\$37.25
684713	CHT1	50° angle bevel tip	11.19	10.65
684756	CHT2	61° angle conical tip	11.19	10.65
684764	CHT3	61° angle chisel tip	11.19	10.65

## Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available



- 19255:
- UL listed
  - One-hand operation
  - Size: 10.5"L x 1.0"Dia.
- 19166: Size: 7.8"L x 0.8"Dia.
- 305218/305226: Size: 13"L x 1.0"Dia.

Part No.	Description	1	10
19255	Electric desolder pump	\$26.95	\$23.95
19166	Manual desolder pump	4.95	4.49
305218	Man. desolder pump (ESD safe)	18.95	17.99
305226	Manual desolder pump	14.75	13.99
19262	1 tip for 19255	4.95	4.49
22091	2 tips for 19166	4.49	3.95
307782	1 tip for 305226	2.39	2.27

## Soldering Tips

### Replacement Tips for Pro-120 Butane Powered Soldering Iron



Part No.	Cross Ref. No.	Description	1	5
255302	PS-3	Tip, 1/8" flat	\$8.99	\$8.75
255371	PS-10	Tip, hot blower	8.99	8.75

www.Jameco.com

More Soldering Equipment  
available on our website.  
Visit us online today!

## Solder Spool & Iron Stand

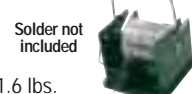
- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6" • Wt.: 2.0 lbs.



Part No.	Description	1	10	100
169551	Spool & iron stand	\$16.95	\$15.29	\$13.75

## Solder Spool Stand

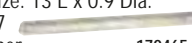
- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6" • Weight: 1.6 lbs.



Part No.	Description	1	10	100
141761	Solder spool stand	\$8.95	\$7.95	\$6.95

## Solder Bars

- Used with solder pots
- Size: 13"L x 0.9"Dia.
- 176057: 60/40 170465: 63/37
- 668406: 99.3% tin, 0.7% copper
- 668414: 96.3% tin, 3.2% silver, 0.5% copper
- 668422: 96.5% tin, 3.5% gold



Part No.	Description	1	10	25
176057	60/40	1.1	\$8.75	\$8.31
170465	63/37	1.8	11.95	11.33
668406	99.3/7	2.2	36.49	31.95
668414	96.3/3.2/5	2.2	81.47	74.03
668422	96.5/3.5	2.2	73.99	67.24

## 300-Watt Solder Pots

Temperature Regulated Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057 or 170465, above
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty



Part No.	Description	1	10	25
160304	300W solder pot	\$71.39	\$67.85	\$64.46
668043	300W solder pot	146.95	139.59	132.65

## 600-Watt Solder Pots

Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 or 170465, above
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.



Part No.	Description	1	10
172276	600W solder pot	\$227.94	\$175.50
668051	600W solder pot	314.99	309.99

## 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 or 170465, above
- 3 conductor pigtail power cord: 5' long
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs. • One-year warranty



Part No.	Description	1	5
149876	2000 watt solder pot	\$399.95	\$359.95

## Fume Extractor

Designed to remove solder flux fumes and other workplace fumes from the operator's breathing zone. Uses activated-carbon filter and a high efficiency fan. Air is filtered, cleaned, and returned to the workplace.

- Input voltage: 110 – 120V
- Power: 20W
- Fan specifications: 50dB S/N ratio; 87cfm
- Size: 8.3"H x 8.3"W x 5.3"D
- Weight: 3.3 lbs.
- Arm length: 29"

Part No.	Product No.	1	10
667420	GS-630A	\$54.09	\$51.25
672579	GS-628-08 (carbon filter 3pk.)	15.99	14.39

## Combination 42-Watt Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D
- Weight: 5.2 lbs.

**Includes:** Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10
183169	456DLX	\$89.95	\$86.29

## Fume Extractor

**Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan**

- Operate continuously providing filtered air
- Static ground jack
- Fuse protected
- Air flow: 115 CFM
- Noise: 49dB fan
- 20VAC, 60Hz, 22 watt
- Aerodynamic hood design for effective removal of solder fumes
- Black anodized aluminum case
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs.
- One-year warranty

**Includes:** Detachable power cord

Part No.	Description	1	10	25
120150	Fume extractor	\$58.95	\$52.95	\$47.79
127183	Replace. filters (2/pk)	12.95	11.66	10.49

## Weller® Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.

- Voltage: 120VAC
- Sound level: 45-50dB
- Air consumption: 87-107CFM
- Power consumption: 20W
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H
- Weight: 4.2 lbs.
- UL/CUL listed
- ESD safe

Part No.	Product No.	1	5
684810	WSA350	\$47.95	\$44.95
684828	WSA350F (carbon filter)	7.15	6.79

## Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W

Part No.	Mfr. Part No.	1	10	25
159126	HT156	\$3.05	\$2.71	\$2.45

## Heat Sink Compound 4-oz.

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.

Part No.	Product No.	1	10
169252	1978DP	\$19.09	\$18.22

## Heatsink Compounds

### Silicone (Z9)

Industry standard zinc oxide-filled silicone heatsink grease for most applications. Will not soften at elevated temperatures, dry out or harden. Meets MIL SPEC C-47113

Part No.	Prod. No.	Description	1	10	100
615304	10-8106	1 lb. can	\$29.05	\$27.03	\$23.71
615312	10-8108	6.5 gram tube	2.29	2.13	1.87
615321	10-8109	1 fl. oz. tube	6.35	5.89	5.17

## Heat Sink Compounds

Thermally loaded silicone-based grease that improves transfer of energy across the metal-to-metal interface between transistor or rectifier and heat sink.

- Color: opaque white

Part No.	Mfr. Part No.	1	10	100
167249	THM250 (2 oz.)	\$9.95	\$8.96	\$8.06
236823	54114 (1 oz.)	4.95	4.21	3.16

## Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover

Part No.	Description	1	10	50
158131	Pump bottle	\$9.95	\$8.95	\$7.95

## Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability

73584: Highly active non-corrosive and non-conductive flux with excellent wetting action

Part No.	Description	1	10	50
156777	Tip cleaner & stand	\$4.95	\$4.49	\$4.05
160004	Metal wool replacement	2.79	2.49	2.29
73584	Rosin paste flux (2 oz.)	2.95	2.44	2.19

## Lead-Free Solder Tip Tinner

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!

- 0.7 oz. tin with self adhesive pad

Part No.	Description	1	10	50
132986	Lead-free tip tinner	\$4.95	\$4.59	\$4.19

## 5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.

- Length: 5'

Part No.	Description	1	10	100
139951	.030"W desolder braid	\$2.99	\$2.69	\$2.29
124126	.055"W desolder braid	3.05	2.90	2.74
124118	.075"W desolder braid	2.89	2.72	2.46

## 5' Desoldering Braids

- Easy-to-use, handy dispenser
- Braided copper with flux

Part No.	Description	1	10	100
41082	.079"W braid (5')	\$1.69	\$1.46	\$1.09
41100	.098"W braid (5')	1.59	1.32	1.18
153461	.120"W braid (5')	1.59	1.39	1.25

## Rosin Core Solder Rolls and Pocket Packs

Part No.	Manufacturer	% Composition				Dia. (in.)	Wt. (lbs.)	Pricing			
		Tin	Lead	Silver	Copper			1	10	50	100
668078	—	99.3	—	—	0.7	0.04	0.6	\$10.79	\$9.89	\$8.91	\$8.45
668262	—	96.3	—	3.2	0.5	0.04	0.6	16.09	15.38	14.61	13.88
668271	—	96.5	—	3.5	—	0.04	0.6	20.55	17.28	17.04	16.75
668297	—	96.3	—	3.2	0.5	0.04	1.1	29.95	29.00	28.10	26.69
668318	—	96.5	—	3.5	—	0.04	1.1	27.79	27.10	26.65	26.19
668326	—	99.3	—	—	0.7	0.04	2.2	38.75	31.39	29.82	28.33
668342	—	96.5	—	3.5	—	0.04	2.2	65.45	62.18	59.07	56.12
141786	Super	60	40	0	—	0.031	1.10	8.99	7.99	7.49	6.99
141778	Super	60	40	0	—	0.031	2.20	15.49	14.99	14.49	13.99
170457	Golden	60	40	0	—	0.031	0.06	1.39	1.25	1.05	.99
73576	Kester (pak)	60	40	0	—	0.031	0.04	2.79	2.54	2.26	2.03
32117	Kester	60	40	0	—	0.031	1.00	16.99	15.31	13.81	12.43
73605	Kester (pak)	62	36	2	—	0.020	0.02	1.50	1.19	1.17	1.16
112344	Kester	63	37	0	—	0.020	1.00	19.49	18.50	18.27	18.14
151474	Kester*	63	37	0	—	0.031	1.00	18.39	16.55	14.89	13.39

\* Organic core

## TECHSPRAY ProWick® Desoldering Braids



### Pure Rosin

Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux, which cleans connections thoroughly during desoldering to insure maximum solderability. The thin coating of flux also provides dependable, long lasting protection from oxidation.

- Length: 5'



263695

Part No.	Product No.	1	10	100
263695	1803-5F (0.075"W) 	\$2.09	\$1.90	\$1.80
263599	1804-5F (0.098"W) 	2.87	2.70	2.45

### Clamp Vise

- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W



- Weight: 2.1 lbs.

Part No.	Description	1	10
127167	Clamp vise 	\$20.79	\$19.71

## PANA VISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty



Part No.	Description	1	5	10
27060	Electronic center 	\$74.95	\$71.25	\$67.95

## PANA VISE Vacuum Vise

- Patented "split ball" feature tilts/turns/rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty



Part No.	Product No.	1	10
27131	M381 	\$55.95	\$53.25

## PANA VISE PV Jr. Vise

- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- The vise neck tilts, turns and rotates
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs.
- One-year warranty




Part No.	Description	1	10
134439	Jr. vise w/ mountable base 	\$23.75	\$23.16

### Third Hand

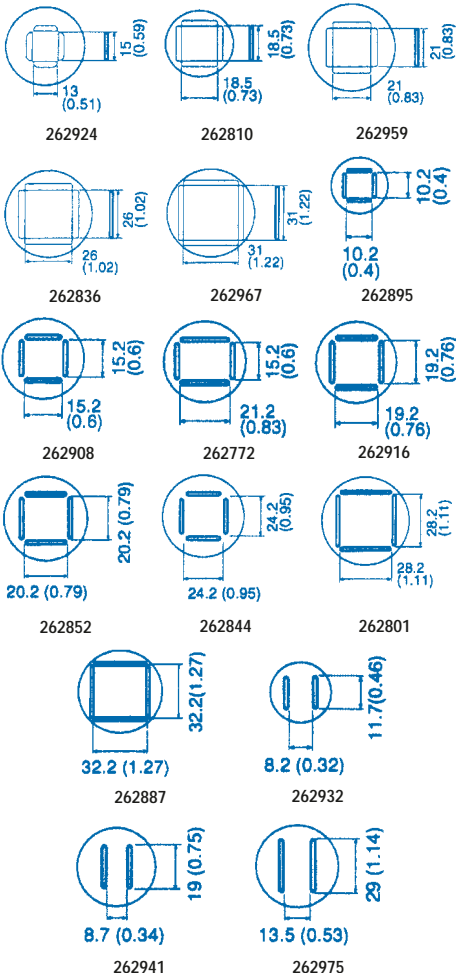
- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: 0.7 lbs.



Part No.	Description	1	10	50
26690	Third hand 	\$5.95	\$5.35	\$4.79
681002	Third hand	8.75	7.89	7.15

# Hot Air SMD Rework Station

### Focus Hood Tips Dimensions: mm (in.)



## Hot Air SMD Rework Station with Digital Display

The Hot-Air SMD 850D is engineered to meet the demanding needs of today's electronic industry; technicians, service/repair and assembly rework. The system not only increases productivity for SMD assembly and repair but also achieves a new standard of quality.


















- Incorporates a US made pump – the largest in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Adjustable air-flow
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- 310W nichrome heating element
- Hot air temperature range: 100°C - 385°C (212°F - 725°F)
- Size: 7.4"W x 9.6"D x 5.0"H



**Quantity SAVE**

- 25W diaphragm pump
- Weight: 10.8 lbs.

**Includes:** Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895 and 262908)

Part No.	Product No.	Description	1	5
262705	850D 	Hot air SMD rework station with 4 focus hood tips	\$395.05	\$375.25
262924	A1141B 	Focus hood tip, PLCC 11.5 x 14	34.25	25.69
262810	A1135B 	Focus hood tip, PLCC 17.5 x 17.5	34.95	26.21
262959	A1136B 	Focus hood tip, PLCC 20 x 20	48.95	36.71
262836	A1137B 	Focus hood tip, PLCC 30 x 30	48.95	47.32
262967	A1138B 	Focus hood tip, PLCC 30 x 30	48.95	44.05
262895	A1125B 	Focus hood tip, QFP 10 x 10	34.95	33.25
262908	A1126B 	Focus hood tip, QFP 14 x 14	34.95	33.25
262772	A1128B 	Focus hood tip, QFP 14 x 20	34.25	25.69
262916	A1127B 	Focus hood tip, QFP 17.5 x 17.5	34.95	33.25
262852	A1261B 	Focus hood tip, QFP 20 x 20	49.95	48.29
262844	A1182B 	Focus hood tip, BQFP 24 x 24	49.95	48.29
262801	A1129B 	Focus hood tip, QFP 28 x 28	48.95	44.06
262887	A1265B 	Focus hood tip, QFP 32 x 32	79.95	75.95
262932	A1258B 	Focus hood tip, SOP 7.6 x 12.7	34.95	33.25
262941	A1260B 	Focus hood tip, SOP 8.6 x 18	34.95	33.25
262975	A1259B 	Focus hood tip, SOP 13 x 28	49.95	48.29

More products available on our website at [www.Jameco.com](http://www.Jameco.com)



- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs



## Workshop Chemicals



### Envi•Ro•Tech™ Duster

Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

Part No.	Description	Wt. (lbs.)	1	12
139900	10 oz. aerosol w/ trigger	0.8 ...	\$8.99	\$8.37
263530	15 oz. aerosol w/ trigger	0.8 ...	\$12.99	\$12.35

### Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62°F.

Part No.	Description	Wt. (lbs.)	1	12
139934	10 oz. aerosol can	0.8	\$12.95	\$11.58

### ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most no-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041	10 oz. flux remover	0.8	\$10.85	\$10.50

### ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections
- Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033	10 oz. contact cleaner	0.9 ...	\$9.99	\$8.94

## DATA Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T
- Includes: Instructions



Part No.	Description	1	10	25
156751	Single sided	\$5.19	\$4.72	\$4.15
156734	4 oz. pos. developer	6.95	5.95	4.95



## Wire Wrap and Push-In Terminals

For .042" Diameter Holes

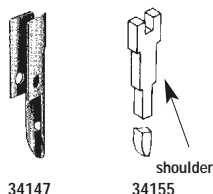
- Material: copper alloy
- Prebagged 100 pcs.

### 34147: Push-In Micro-Klip Terminals

- Overall length: .36"
- Post size: .032" x .045"

### 34155: Miniwrap Wiring Terminals

- Shoulder: .045"
- Two-prong with square tail for wire wrapping
- Overall length: .69" • Post size: .025"Sq.



Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147	T421	.200	.097	\$8.75	\$8.34
34155	T44	.065	.530	11.45	9.80

### Isopropyl Alcohol

99.8%+ pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572	1 pint bottle	1.1	\$9.99	\$8.99

### Quick Test® Detector Activation Spray

This non-flammable aerosol is safe on the ozone layer while eliminating the risk of fire. A unique vertical actuator that when depressed, sprays a cloud of simulated smoke toward the detector setting off the alarm.

Part No.	Description	Wt. (lbs.)	1	12
481730	2.5 oz. aerosol	0.3	\$5.69	\$4.89

### No-Clean Flux Dispensing Pen

The resin and halide-free no-clean flux will leave no residues. It provides optimum wetting over a wide range of surfaces and will not damage commonly used plastics.

Part No.	Description	Wt. (lbs.)	1	5
481764	11.5 ml pen	0.1	\$5.69	\$5.55

## DATA Dry Concentrated Etchant

- Makes one pint of etch solution

Part No.	Product No.	1	10	25
70201	ER3	\$4.55	\$3.94	\$3.59

\* Shipped via UPS ground to continental U.S. only

## Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.

- Repairs traces
- Links components
- Makes smooth jumpers
- Shields components

Part No.	Description	Wt. (lbs.)	1	12
263716	4.89 ml pen	0.1	\$17.19	\$16.38

## Zero Charge™ Hand Lotion

Contains natural products including aloe vera and vitamins A and E. Moisturizers penetrate rapidly leaving skin soft and non-greasy. Improves the contact between personnel and grounding devices such as wrist and heel straps.

Part No.	Description	Wt. (lbs.)	1	24
481684	8 oz. bottle	1.2	\$5.09	\$4.48

## Zero Charge™ Mat and Table-Top Cleaner

A neutral pH cleaner for general use in production areas that removes insulating contaminants such as flux residues, oils, greases, nicotine, dirt and grime.

Part No.	Description	Wt. (lbs.)	1	12
481713	1 quart bottle	2.2	\$11.95	\$9.82

\* Shipped via UPS ground to continental U.S. only

For complete 3M selection



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More Major Brand products available at [www.Jameco.com](http://www.Jameco.com)



## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Single and double-sided boards are copper plated.

- 1.6mm thick

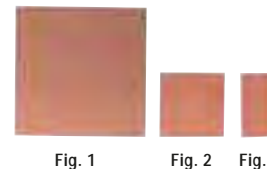


Fig. 1 Fig. 2 Fig. 3

Single-Sided								
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10	50	
169279	PCBS3X6	3.0 x 6.0	3	0.1	\$3.49	\$3.14	\$2.36	
169288	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.46	3.56	
169296	PCBS12X12	12.0 x 12.0	1	0.5	13.49	12.14	10.93	
Double-Sided								
169309	PCBD3X6	3.0 x 6.0	3	0.1	\$5.25	\$4.73	\$4.25	
169317	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.16	5.72	
169325	PCBD12X12	12.0 x 12.0	1	0.7	17.95	16.16	12.92	

We're Listening to  
Your Requests

Email us 24/7 at [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com) with suggestions for products you'd like to see in future catalogs.

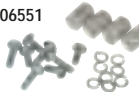


## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

106551



206578



21435



52943



21478



Board Outline



A  
Holes Only



B  
Pad Per Hole



C  
Power/Ground Perimeter Bus with Pad Per Hole



D  
3 Hole Solder Pad and Bus

See PCB enclosures on pg 237, mounting hardware (recommend P/N 106551) below

Part No.	Cross Ref. Number	Size (W" x L")	Fits Enclosure(s) (see page 237)	Circuit Pattern	Hole Pads	# Holes x Dia. ↑	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105100	2855PCB	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	\$5.25	\$4.73	\$4.25	\$3.83
105101	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.26	5.59	4.95
263186	PCB-403	1.80 x 3.10	18922	B	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105129	2853PCB	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105111	2300PCB	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
263207	PCB-463	2.40 x 4.10	N/A	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
263215	PCB-858	2.50 x 4.50	18914	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105153	2851PCB	3.10 x 6.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263223	PCB-69	3.30 x 3.70	N/A	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105137	2320PCB	3.30 x 4.50	11885	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105162	2852PCB	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206587	2746PCB	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21435	JE401(8001)	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	21.95	19.76	17.78	16.00
21452	JE405(8003)	4.50 x 6.50	18869	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	14.36	10.77
206578	2743APCB	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105180	2505PCB	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	10.95
21478	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	29.66	22.24
206594	2747APCB	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	10.79	8.09
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.96	21.56	16.17
263232	PCB-7038	8.30 x 11.9	N/A	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	52.19	49.59	47.09
263249	PCB-6088	9.20 x 13.0	N/A	B	Plated through	11,000 x .042"	10	None	13 x .115"	.50	55.95	52.19	49.59	37.19

### Other Manufacturers — Great Deals

28177	PCB1	2.42 x 4.10	18914	C	Plated through	674 x .040"	None	None	4 x .120"	.04	\$5.95	\$5.35	\$4.79	\$4.29
28193	PCB3	5.00 x 8.00	18877	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	19.76	17.08	16.23

### Vector Products

43140	64P44XXXP	4.50 x 6.50*	18869	A	Drilled only	2860 x .042"	None	None	None	.09	\$7.31	\$7.05	\$6.99	\$6.91
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	11.19	11.05	10.95	10.85
37604	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	20.59	17.55	16.09	15.93
37612	169P44XXXP	4.50 x 17.0*	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	15.65	14.99	14.40	13.92
37621	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14,448 x .042"	None	None	None	.53	28.39	27.56	26.73	25.93
106551	20 pieces PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										2.82	2.61	2.30	2.14

\* PCB material: phenolic

↑ All 0.042" diameter hole boards use terminals T44, T49, and T421 (see pg 234)

Ⓢ Blue Part No. = Limited Quantity Available

## PT Series Prototyping Boards

Accommodates any mixture of 0.3" to 0.6" wide IC's with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101179 & 101187, pg 145)

Part No.	Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	5	10
645677	PT-35X25	3.5"L x 2.5"W	Double-sided	456 x .036"	4 x .140" .....	\$17.75	\$16.85	\$16.45
262511	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140" .....	24.75	22.95	21.79
262537	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140" .....	32.49	30.89	29.35



262511



262537



645677



## Circuit Boards

### Bare Copper Circuit Boards

One ounce copper (0.0014") on base of either fiberglass or reinforced epoxy board. 1/16" thick.

#### Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616471	22-250	3" x 5" ....	\$2.69	\$2.53	\$2.23
616489	22-260	4" x 6" .....	3.59	3.35	2.95
616497	22-261	6" x 6" .....	4.99	4.66	4.11
616500	22-263	6" x 9" .....	5.69	5.32	4.69
616518	22-264	8" x 10" ....	8.89	8.32	7.34
616534	22-268	11" x 14" ..	17.75	15.09	13.19

#### Double-Sided Board

616526	22-267	6" x 9" ....	\$6.09	\$5.72	\$5.05
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616518

#### Assortment's Single Sided Boards

- 1 each 2" x 4.5" and 3" x 4.5"
- 2 each 2.25" x 3"

Part No.	Product No.	1	10	50
616551	22-272 .....	\$5.49	\$5.13	\$4.51

## Circuit Board Drafting Patterns

An 8.5" x 11" sheet containing 2 dozen of the most commonly used pre-spaced component configurations. Self-adhesive pads may easily be removed from master sheet with a precision knife (recommend P/N 72768, pg 228).

Ⓢ Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10	50
616323	21-377	\$4.69	\$4.35	\$3.84



Electro Design

www.Jameco.com

For Additional Prototyping Boards  
visit our website today.



## Circuit Boards

### Positive Pre-Sensitized Circuit Boards

1 oz. copper (0.0014") on 1/16" epoxy glass board, UL94V-0 rated. High quality positive pre-sensitized board is double protected from light and handling damage. The peel-off coating protects the board while handling or cutting prior to exposure.



616243

#### Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616201	21-243	3" x 6" ....	\$4.45	\$4.18	\$3.69
616219	21-247	7" x 10" ..	11.75	10.95	9.67
616243	21-332	3" x 4" .....	5.29	5.00	4.75
616251	21-334	4" x 6" .....	5.35	4.99	4.40
616260	21-336	6" x 6" .....	5.99	5.58	4.92

#### Double-Sided Boards

Part No.	Product No.	Size	1	10	50
616286	21-339	3" x 4" ....	\$4.25	\$3.99	\$3.52
616307	21-353	6" x 9" ....	11.69	11.10	10.54
616315	21-357	12" x 12" ..	31.95	30.24	27.22

Blue Part No. = Limited Quantity Available

### Copper Circuit Tape

Six foot roll of 1/8" wide self-adhesive copper tape for quick repairs and modifications. Adheres easily to PC boards and similar surfaces, solder-ready. Low resistance, 0.002" thick.



Part No.	Product No.	1	10	50
616657	22-509	\$3.79	\$3.55	\$3.14

Additional GC Electronics Circuit Boards & Prototype Boards available at [www.Jameco.com](http://www.Jameco.com).



## Prototype Boards

### Experimenter's Phenolic Prototype Boards

Save time and money with ready-to-use printed circuit boards. Excellent for use in prototype building, experimenting, hobby or science projects and kit building. 0.03" punched holes on 0.150" centers.



616649



616673

- 616649: Copper plated with 94 five-point terminals and two 40-point bus strips
- Size: 6.0"L x 2.0"W x 1/16" thick
- 616673: Size: 6 3/4"L x 3 3/8"W x 1/16" thick

Part No.	Product No.	Description	1	10	50
616649	22-508	Copper plated	\$9.25	\$8.65	\$7.63
616673	22-512	Sngl. land patt.	5.29	4.76	4.28

### Plug-In IC Phenolic Prototype Board

IC's plug directly into board. It's 0.1" spacing accepts 14-pin up to 20-pin IC's. Silver plated lands with 24-way card edge connector plug on one end. 0.1" centers x 2 3/8" wide x 4" long x 1/16" thick, 0.035" diameter holes.



Part No.	Product No.	1	10	50
616614	22-500	\$2.45	\$2.33	\$2.21

### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated.



- 0.1" centers
- Size: 3 1/8"W x 5 1/16"L x 1/16" thick

Part No.	Product No.	1	10	50
616631	22-504	\$4.05	\$3.80	\$3.35

### Versa Strip Phenolic Prototype Board

- Alpha-numeric indexing
- Silver-plated land patterns
- Predetermined short tracks for multi-IC work
- 0.035" diameter holes
- Size: 3.5"W x 6"L x 1/16" thick
- 0.1" centers



Part No.	Product No.	1	10	50
616622	22-502	\$6.19	\$5.77	\$5.09

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.



- 616681: • Size: 6.0"L x 2.25"W x 1/16" T
- 0.042" dia. holes, 0.1" spacing
- 616690/616702: • Size: 6.0"L x 4.5"W x 1/16" T
- 0.093" dia. holes, 0.265" spacing

Part No.	Product No.	1	10	50
616681	22-514	\$4.59	\$4.32	\$3.81
616690	22-516	5.29	4.96	4.37
616702	22-518	5.85	4.97	4.81

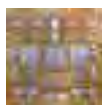


## Prototyping Boards

The only prototyping system that allows one to work on one circuit block at a time, test the blocks individually, and then connect the blocks together. This is why the system is called "Electronic Circuit Building Blocks."



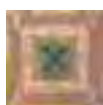
1537580



1537723



1537635



1537660



1537686

### Thru Hole Boards

Part No.	Product No.	Description	Price
1537580	201-0001-01	0.1" center spacing w/ 0.5" offset, 12 ground holes	\$5.49

### Discrete Surface Mount Boards

1537715	202-0034-01	0201/0603/0805/1206/1210/1608/1812/ 2010/2512 discrete SMT in case size A/B/C	\$10.99
1537723	202-0035-01	SOT23-3/5/6/SC70-5/6/DPAK/D2PAK/SOT223/T0263-7/ SOT89/0805/1206 discrete in case size A/B/C/D/E	10.99

### SO/SOP Boards

1537635	202-004-01	4-56-pin SOIC w/ 0.05" pitch, 0603 and thru hole components, 12 ground holes	\$10.99
1537643	202-0007-01	Up to 72-pin SO/SOP/QSOP/SSOP/TSSOP/PSSOP w/ 0.5mm pitch, 0603 & 0805 discrete, 6 ground holes	10.99

### CHIPSCALE (QFN) Boards

1537678	202-0016-01	Supports 12-24 pins w/ 0.5mm & 0.65mm pitch	\$10.99
1537686	202-0017-01	Supports 10 & 32 pin w/ 0.5mm pitch	10.99
1537694	202-0018-01	Supports 8 & 48 pin w/ 0.5mm pitch	10.99
1537707	202-0020-01	Supports 64 pin w/ 0.5mm pitch	10.99

### QFP Boards

Part No.	Product No.	Description	Price
1537651	202-0009-02	Up to 64 pins QFP, TQFP, PQFP w/ 0.8mm pitch & 0603 discrete, 22 ground holes	\$10.99
1537660	202-0011-01	32-100 pins QFP, TQFP, PQFP w/ 0.5mm pitch & 0603 discrete, 6 ground holes	10.99

### Thru Hole I/O and Power Board

1537598	201-0100-01	Power & ground strip	\$2.75
1537601	201-0104-01	DB-25 connector	2.75
1537619	201-0105-01	JTAG 20-pin w/ 0.1" spacing & IEEE 1394	2.75
1537627	201-0106-01	RGB HD-DB15, 4 ground holes	2.75
1537803	201-0101-01	Drive power conn. & power jack, 12 ground holes	2.75
1537811	201-0102-01	ATX power connector, 10 ground holes	2.75
1537820	201-0108-01	RJ11 or RJ45 & one USB-B conn., 8 ground holes	2.75

### Accessories

1537740	920-0005-01	10 pcs. 22AWG 3" jumper wires & 20-pin headers	\$5.49
1537758	920-0006-01	10 pcs. 22AWG 5" jumper wires & 20-pin headers	5.49
1537766	920-0007-01	10 pcs. 22AWG 7" jumper wires & 20-pin headers	5.49
1537774	920-0008-01	100 pcs. 22AWG 3" jumper wires	41.89
1537782	920-0009-01	100 pcs. 22AWG 5" jumper wires	41.89
1537791	920-0010-01	100 pcs. 22AWG 7" jumper wires	41.89

**SCHMART MODULE** Operates on a single 5V power source, ESD protected in excess of 15KV on all I/O lines, 4 LED's (2TRX & 2RCX), pre-installed headers for transceiver lines, +5V, & ground.

Part No.	Product No.	Price
1537731	710-0001-01	\$16.55

[www.Jameco.com](http://www.Jameco.com)

For additional SchmartBoard Prototyping Boards visit our website today.

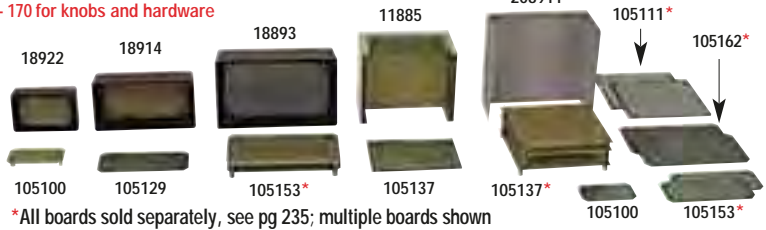
**JAMECO ValuePro**

The prototype builder boards on pg 235 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 235 (P/N 106551).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

## Enclosures

See pages 168 - 170 for knobs and hardware



\*All boards sold separately, see pg 235; multiple boards shown

Call for additional OEM pricing.

## ABS Plastic Enclosures

Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	\$3.15	\$2.84	\$2.55	\$2.30
18914	H2853	4.9" x 2.5" x 1.5"	3.69	3.32	2.99	2.69
18893	H2851	6.0" x 3.5" x 1.9"	4.79	4.31	3.88	3.49
18906	H2852	7.5" x 4.3" x 2.3"	7.25	6.51	5.86	5.27



## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
208901	B2741A	4.0" x 3.3" x 2.2"	\$6.49	\$5.89	\$5.29	\$3.96
208911	B2743A	5.9" x 5.3" x 3.0"	9.09	8.20	7.40	6.71
208929	B2744A	7.3" x 6.3" x 2.8"	10.15	9.14	7.31	6.42
209350	B2746A	6.3" x 7.8" x 2.5"	13.35	10.04	9.60	7.20
209358	B2747A	7.5" x 9.8" x 3.2"	17.99	16.19	12.95	9.78



## Die-Cast Aluminum Enclosures

Ideal for RF circuits. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	\$5.95	\$5.39	\$4.85	\$4.35
11965	B5004	4.7" x 2.4" x 1.6"	8.99	8.10	7.29	6.56
11973	B5006	7.5" x 4.3" x 2.4"	16.74	15.08	13.56	12.21



## ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots. • Color: gray

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	\$7.89	\$7.10	\$6.39	\$5.75
18877	H2507	10.0" x 7.5" x 3.1"	9.15	8.15	7.43	6.68



## ABS Enclosures w/ Clear Tops

Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

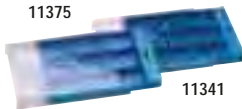
Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
141832	203C1	4.6" x 3.2" x 1.8"	\$9.99	\$8.99	\$7.99	\$6.99
141841	203D1	6.5" x 3.4" x 2.2"	11.15	10.07	9.06	8.12
141859	203F1	7.3" x 5.7" x 3.0"	11.99	10.99	9.99	8.99



## Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332, below)
- Box size: 4.9"L x 3.3"W x 0.6"H
- 11341: stores sixty 8-pin or thirty 16-pin DIPs
- 11375: Designed to store all types of components

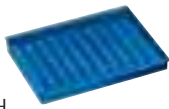
Part No.	Description	1	10	100
11341	30 compartments ...	\$5.95	\$5.49	\$4.85
11375	3 compartment/6 vertical & 6 horizontal dividers	4.29	3.95	3.65



## Bug Tray

- Fits in bug cage (P/N 11332, below)
- 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H

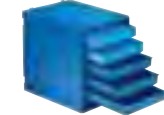
Part No.	Description	1	10	100
11800	Divided bug tray	\$3.19	\$2.87	\$2.58



## Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Case size: 5.0"L x 3.9"W x 5.1"H
- Color: blue

Part No.	Description	1	10	100
11332	Bug cage	\$8.95	\$8.02	\$7.22



Boxes/Trays not included

## Component Cabinet

**JAMECO ValuePro**



Drawer (319601) Divider (319611)

- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H

319601: 5.5"L x 2.7"W x 1.5"H  
 319611: 2.5"W x 1.2"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

Part No.	Description	1	10	50
319600	Component cabinet	\$15.95	\$13.95	\$12.49
319601	Drawer for cabinet	.39	.35	.29
319611	Divider for cabinet	*	.19	.17



More Storage & Boxes available at  
[www.Jameco.com](http://www.Jameco.com)

## Plastic FlipTop Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100255: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)
- 148902: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)

Part No.	Description	1	10	100
100255	18 compartments	\$2.25	\$1.91	\$1.43
148902	12 compartments	3.99	3.59	3.19



## Plastic FlipTop Case for SMDs

- 128 compartments • Color: gray
- 8 rows x 16 columns grid
- FlipTop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 84
- Size: 11.0"L x 8.3"W x 1.7"Thick

Part No.	Description	1	10
164267	SMD flipTop case	\$49.95	\$44.99



Over 99% of Our Catalog  
 Products Are In Stock






Place your order by 6PM EST  
 for same business-day shipment.



## Enclosures










### A Series — with PCB Boss Mounts

- 4-piece design
- Interchangeable end panel
- 4-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
373309	A-20-BK 	Black	None	4.25 x 2.60 x 0.88	\$5.55	\$4.37	\$4.19
373333	A-21-BK 	Black	None	4.25 x 2.60 x 1.12	5.59	4.50	4.15
373368	A-27-BK 	Black	None	5.31 x 3.35 x 1.50	8.35	6.95	6.76
373456	A-42-BK 	Black	None	7.12 x 5.00 x 1.62	13.09	10.30	9.83
373608	A-42-9V-BK 	Black	1-9V	7.12 x 5.00 x 1.62	14.65	11.55	10.99

### C Series — with Pinch-Fit for PCBs




- Simple 2-piece design
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
675331	C-4-BK 	Black	2.13 x 1.38 x 0.58	\$2.75	\$2.18	\$1.94	\$1.92
694541	C-4-TR-GY 	Gray*	2.13 x 1.38 x 0.58	4.65	3.68	3.34	3.23
675358	C-6-BK 	Black	2.26 x 1.61 x 0.75	2.59	2.06	1.87	1.79
694559	C-6-TR-GR 	Green*	2.26 x 1.61 x 0.75	4.65	3.68	3.34	3.23
675366	C-8-BK 	Black	2.40 x 1.85 x 0.93	2.75	2.18	1.94	1.92
694567	C-8-TR-RD 	Red*	2.40 x 1.85 x 0.93	4.65	3.68	3.34	3.23
675374	C-10-BK 	Black	3.25 x 2.30 x 0.80	2.95	2.32	2.09	2.06
694575	C-10-TR-BL 	Blue*	3.25 x 2.30 x 0.80	5.05	4.99	4.79	3.75
675382	C-12-BK 	Black	3.75 x 2.40 x 1.00	4.19	3.33	2.58	2.37
694612	C-28-BK 	Black	5.00 x 1.85 x 1.00	4.15	3.42	2.95	2.42

\* Translucent

















### CH Series — Single Screw Assembled

- Simple 2-piece design
- Insert area for customized I-plate

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
675391	CH-4-BK 	Black	2.27 x 1.52 x 0.59	\$3.15	\$2.65	\$2.39	\$2.06
675403	CH-6-BK 	Black	2.39 x 1.74 x 0.76	3.25	2.66	2.05	1.80
675411	CH-8-BK 	Black	2.58 x 2.02 x 0.93	3.19	2.79	2.54	1.93

### H Series — Handheld with Built-in Battery Holder

- Ergonomic handheld design
- 5-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
374395	H-45-BK 	Black	None	3.90 x 2.20 x 0.94	\$6.19	\$5.90	\$5.60
374483	H-45-AAA-BK 	Black	2-AAA	3.90 x 2.20 x 0.94	7.79	6.80	6.45
374424	H-65-BK 	Black	None	4.94 x 2.75 x 0.94	7.35	6.09	4.88
694621	H-65-TR-GY 	Gray*	None	4.94 x 2.75 x 0.94	12.69	11.12	10.71
694639	H-65-TR-RD 	Red*	None	4.94 x 2.75 x 0.94	13.09	10.90	8.73
374512	H-65-AA-BK 	Black	2-AA	4.94 x 2.75 x 0.94	7.55	6.70	6.25
374715	H-65-AA-TR-BL 	Blue*	2-AA	4.94 x 2.75 x 0.94	14.35	11.28	10.75
374723	H-65-AA-TR-GR 	Green*	2-AA	4.94 x 2.75 x 0.94	14.35	11.96	9.57
374635	H-65-9V-BK 	Black	1-9V	4.94 x 2.75 x 0.94	7.35	6.39	5.84
374758	H-65-9V-TR-BL 	Blue*	1-9V	4.94 x 2.75 x 0.94	13.09	10.47	10.39
374774	H-65-9V-TR-RD 	Red*	1-9V	4.94 x 2.75 x 0.94	14.05	11.73	9.42
675323	H-67-BK 	Black	None	4.94 x 2.75 x 1.28	6.85	5.99	5.79
374547	H-67-AA-BK 	Black	2-AA	4.94 x 2.75 x 1.28	8.25	6.77	6.28
374942	H-67-9V-BK 	Black	1-9V	4.94 x 2.75 x 1.28	7.55	6.69	5.59
374459	H-75-BK 	Black	None	7.19 x 3.65 x 1.26	8.35	7.99	7.55
374601	H-75-4AA-BK 	Black	4-AA	7.20 x 3.65 x 1.20	12.19	9.99	8.11






\* Translucent

## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

### M Series — Handheld with Built-in Battery Holder
















- Streamlined handheld design
- 5-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
675420	M-4-BK 	Black	2.80 x 2.20 x 0.70	\$6.29	\$5.30	\$4.30	\$3.85
694663	M-4-TR-RD 	Red*	2.80 x 2.20 x 0.70	10.89	9.09	8.55	8.02
694671	M-4-TR-BL 	Blue*	2.80 x 2.20 x 0.70	10.89	9.08	7.27	6.57
675438	M-6-BK 	Black	4.15 x 2.40 x 0.85	7.09	6.79	5.93	5.69
694815	M-6-TR-GY 	Gray*	4.15 x 2.40 x 0.85	13.59	11.35	9.12	8.27
694807	M-6-TR-GR 	Green*	4.15 x 2.40 x 0.85	13.59	11.35	9.12	8.27
675446	M-8-BK 	Black	6.97 x 2.40 x 0.85	9.05	7.18	7.07	6.72

\* Translucent

### S Series — Two-piece Standard Enclosures




- 2-piece design
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Batt. Holder	Size (L"xW"xH")	1	10	50
675454	110-I-BK 	Black	None	3.61 x 2.27 x 1.01	\$3.45	\$2.71	\$2.63
675462	111-BK 	Black	None	3.61 x 2.27 x 1.51	3.95	3.12	2.95
675471	031-BK 	Black	None	4.38 x 3.25 x 0.91	4.75	3.72	3.65
675489	131-BK 	Black	None	4.38 x 3.25 x 1.51	5.15	4.05	3.99
675569	211-BK 	Black	1-9V	4.10 x 2.60 x 1.51	4.59	4.41	3.71
675577	231-BK 	Black	1-9V	4.38 x 3.25 x 1.51	5.95	4.70	4.42
675585	231-I-BK 	Black	1-9V	4.38 x 3.25 x 1.51	6.05	5.04	4.03
675497	133-BK 	Black	None	4.38 x 3.25 x 2.51	5.79	4.55	4.50
675500	151-BK 	Black	None	5.63 x 3.25 x 1.51	5.99	4.69	4.59
675593	251-BK 	Black	1-9V	5.63 x 3.25 x 1.51	8.09	6.43	5.75
675518	153-BK 	Black	None	5.63 x 3.25 x 2.51	7.55	6.27	5.11
675526	171-BK 	Black	None	6.88 x 4.88 x 1.51	8.75	6.79	6.69
675534	172-BK 	Black	None	6.88 x 4.88 x 2.01	8.09	7.70	7.31
675542	173-BK 	Black	None	6.88 x 4.88 x 2.51	9.75	7.68	7.53
675551	193-BK 	Black	None	9.50 x 6.34 x 2.51	13.79	10.85	10.57

† Insert on top is recessed 0.015" on all models designated with an "I"





### SL Series — Sloped Top Enclosures

- Slanted top
- 2-insert areas for customized I-plates

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50	100
694698	05-SW-BK 	Black	5.63 x 3.25 x 0.91	\$6.79	\$5.64	\$4.79	\$4.24
675606	15-S-BK 	Black	5.63 x 3.25 x 1.51	5.99	4.70	4.27	4.23
694680	27-S-BK 	Black	6.88 x 4.88 x 2.49	9.95	8.22	7.81	7.43




### R Series — Waterproof Cases

- Lifetime guarantee
- Airtight and UV protected
- Waterproof to 30ft, dustproof, corrosion proof
- Features auto pressure purge valve, secure lock holes, nut & bolt security, and foam-filled

Part No.	Product No.	Color	Size (L"xW"xH")	1	10	50
675614	R-120F 	Black	7.6 x 5.0 x 2.2	\$15.85	\$14.51	\$13.91
675622	R-300F 	Black	9.59 x 7.42 x 3.98	30.35	24.70	23.87
675631	R-520F 	Black	12.8 x 9.0 x 6.0	49.75	45.99	44.50
675649	R-720F 	Black	18.3 x 13.2 x 6.72	88.91	76.61	73.87

### CA Series — Keychain Style w/ Battery Compartment

- Ergonomic design
- 0-4 button configuration
- Designed to hold a 20mm coin cell battery
- Assembles with two or three screws

Part No.	Product No.	Buttons	Color	Size (L"xW"xH")	1	10	50
694583	CA-4, 2-BK 	2	Black	2.48 x 1.73 x 0.60	\$5.19	\$4.17	\$3.58
694591	CA-4, 3-BK 	3	Black	2.48 x 1.73 x 0.60	3.95	3.09	2.52
694604	CA-4, 4-BK 	4	Black	2.48 x 1.73 x 0.60	3.95	3.09	2.52

Please Note: Images used are representative. Color and shapes vary by model.

**BELLIN DYNAMIC SYSTEMS, INC.**

## Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible w/ .100" single or dual row male headers (see pg 119)
- Size: 7.6"L x 5.0"W
- Board thickness: 0.031"
- See our website ([www.Jameco.com](http://www.Jameco.com)) for additional specifications



Application example using 215503



Portion of 681133

### Small SMT

Part No.	Prod. No.	Board Description	1	10
215491	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	\$45.95	\$41.35
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

### SOIC

215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$45.95	\$41.95
227310	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227352	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227361	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	41.35

### Fine Pitch Dual Row

215503	B503	34 SMT pattern, SOIC/QSOIP/TSOP/MSOP/TSSOP & more	\$45.95	\$41.35
227281	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	62.49	56.25
681141	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28	45.95	41.45

### Quad

215511	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	\$45.95	\$41.35
323926	B519	2 SMT 0.4mm or 0.5mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95
336479	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
336495	B532	8 SMT, 0.40/0.50mm QFP/MLF 8 - 80 pins (even # of pins/side)	45.05	33.79
681150	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 4/8/12/16/24/28/32 pins	45.95	41.45

### PitchStick™

681133	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches	\$45.95	\$41.45
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### Kits



Part No.	Prod. No.	Description	Price
681168	KIT-100	1 each of B500, B502, B503, B504, B505, B507	\$169.95
681176	KIT-101	1 each of B500, B504, B513, B514, B516, B517	169.95
681184	KIT-202	1 each of B504, B508, B510, B513, B514, B516, B517, B535, B536, B537 & 2 of B500	349.95
681205	KIT-302	1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500	\$29.95




Mini Breadboards for Surface Mount Devices.

## Surfboards®



Part No.	Product No.	1	10
207360	9081 (For 8-pin SOIC) 	\$1.35	\$1.22
207378	9082 (For 8-pin SOIC) 	3.55	3.10
207394	9163 (For 14/16-pin SOIC: 0.1" pin spacing: 0.65"H) 	5.45	4.79

### Application Specific Adapters

Part No.	Product No.	Accepted Devices	Pins	1	10
207597	33206 	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	\$1.95	\$1.69

*microEngineering Labs*


## LAB-X1 Experimenter's Module Board

It provides an assembled test bed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.



- 40-pin ZIF socket for PICmicro MCU (not included, recommend PIC16F877-20/P (P/N 176882, pg 2)
- Reset button • 16 switch keypad
- 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Size: 5.5" x 5.6" • One-year warranty
- Socket for I2C & SPI serial EEPROM, RS485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit

Requires: AC adapter (below)

Part No.	Description	1	10
169113	LAB-X1 Experimenter Board	\$199.95	\$189.95
176882	PIC16F877-20/P microcontroller (pg 2) 	9.29	8.05
127976	AC adapter (details on pg 197)	5.99	5.66
1581222	LAB-X1 Tutorial & Resource Book	49.95	48.95

*microEngineering Labs*


## EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 2.



- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming
- PICmicro Assembler software included



Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397	8/18/20-pin ZIF adapter	34.95	31.95
132610	40/28-pin ZIF adapter	34.95	31.95
162317	AC wall adapter (16VDC/500mA, details on pg 197)	10.49	9.18
67257	6' DB25 cable (details on pg 106) 	7.74	6.95

## PLCC Prototype Adapters

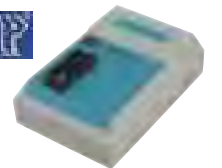
- PCB construction
- Tin-plated PLCC connector • Gold-plated round pins
- PLCC socket slotted for PLCC chip remover
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10



Part No.	Pins	Size (L x W)	1	10	100
73541	44 	2.3" x 1.6"	\$11.95	\$10.79	\$9.69
73569	84 	4.3" x 1.9"	27.85	23.69	17.77

## Flash Writer/Programmer with USB Interface

- Supports Flash EPROM, EPROM & EEPROM
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Programs 8-bit Flash serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix



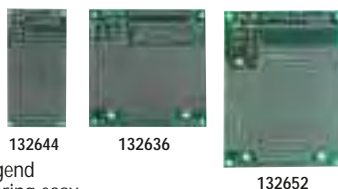
Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947	Leaper 3D	\$199.95	\$179.95

Additional Major Brand products available at [www.Jameco.com](http://www.Jameco.com)


## microEngineering Labs "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area • Silkscreen legend
- Solder mask on both sides makes soldering easy




**Includes:** Documentation sheet with schematic, suggested parts and placement


**PICProto 18, 18L:** For all 18-pin PICs including PIC16C52, 54, 56, 58, 55A, 55B, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644	PICProto 18 	3.0 x 1.5	\$9.95	\$8.95

**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636	PICProto 3 	3.0 x 3.0	\$14.95	\$13.49
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**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652	PICProto 64 	4.0 x 3.0	\$16.95	\$14.95
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## microEngineering Labs

### PICBasic and PICBasic Pro Compiler

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

#### 132661: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Serial speeds to 9600 baud
- PEEK and POKE instructions to access any register from BASIC • May use up to 2k of code space
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16C68xx microcontrollers



#### 150543: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k • Bit, byte, word arrays
- Real If...Then...Else...Endif • Hierarchical expression handling
- Interrupts in BASIC and assembler • BASIC Stamp I and II library
- Built-in LCD support • MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661	PICBasic compiler	\$99.95	\$89.95
150543	PICBasic Pro compiler	249.95	224.95

## EE Tools Universal 48-Pin USB Programmer

- Supports 7,000+ devices including the latest NAND flash memory, standard flash memory, EPROM, EEPROM, serial PROM & microcontrollers
- Device programming speed: 1.5M-bit per second
- Low voltage supports 5, 3.3, 3, 2.7, 2.5, 1.8V programming voltages
- Blank check/program/verify 4M-bit flash memories in 85 sec.
- Supports ASCII, Intel HEX, Motorola S, Tektronix HEX, JEDEC & HOF file formats • Weight: 3.5 lbs.
- User-friendly menu driven iram, verify, blank check, erase, gang programming mode, edit & set programming options via host PC
- Independent start key in each socket
- Input voltage: 100-240VAC @ 50-60Hz • Size: 10.6"W x 3.8"D x 2.5"H

**Includes:** USB cable, CD-ROM software and manual

**System requirements:** 386/486/Pentium® or compatible, USB 1.1 or 2.0, 4MB hard disk space, 16MB RAM, Windows® 95/98/ME/2000/NT/XP operating system

Part No.	Product No	1	5
694891	PROMAX-4G	\$2,225.75	\$2,114.46
694882	TM-8G-DP (8-gang adapter)	336.45	319.58



## HI-LO SYSTEMS

### EPROM Eraser

- Erases all UV erasable EPROMs (32-pin)
- Upper & lower erasing chambers hold a total of 16 EPROMs
- One-year warranty
- Conductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.



**Includes:** AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description	1	5
121267	EPROM eraser	\$165.79	\$160.49




## UVP

### EPROM Eraser and Accessories

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm²



- Weight: 2.3 lbs.
- Size: 9.0"L x 3.7"W x 2.6"H

Part No.	Description	1	5
15712	8-chip eraser 	\$106.85	\$101.49
34382	Lamp for 15712 	39.95	29.95
13864	Foam (12" x 24" x 0.25") 	9.29	8.35

## High-Speed Universal Device Programmer/Tester

### Parallel Port Interface

- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 8000+ device types supported
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Current limiting protects hardware circuits from improperly inserted or defective chips
- Supports POF and JEDEC formats
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors
- CE/CUL/CSA quality certified



**Includes:** Parallel cable, installation diskette, power cord and manual

**System Requirements:** IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765	TOPMAX	48-pin universal ZIF	\$875.95	\$681.86

## 13,000+ Device USB Only Programmer

### USB Interface

- Universal device (13000+) support includes the latest NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, and Microcontrollers
- On-board FPGAs for extremely fast communication
- Supports real low-voltage support: 5, 3.3, 2.7, and 1.8 volt for programming power
- Detects all pin locations for poor or damaged pin contacts
- External "Start" key allows customer to execute the optional auto program parameters without PC command
- Current limiting protects hardware circuit from improperly inserted or defective chips and operation errors • External switching power supply, 110-240VAC
- Support a high-speed USB2.0 port for PC interface
- Support a standard IEEE-1149.1 (JTAG) port



**Includes:** USB cable, wall adapter, program CD and manual

**System Requirements:** IBM PC 386,486, Pentium® or compatibles with USB port, Windows® 98/Me/2000/NT/XP, hard drive, 512K RAM

Part No.	Description	Socket	1	5
694866	CHIPMAX 2	48-pin ZIF	\$544.95	\$517.75

**XELTEK**

## 39,000+ Device 48-Pin USB/Stand-Alone Programmer

- Fastest low-cost programmer in the market; programs high-density Flash memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)
- Currently 39,000+ devices supported from 140+ manufacturers including memory, MCU, and PLD
- Supports: EPROM, Paged EPROM, Parallel/Serial EEPROM, FPGA Configuration Serial PROM, Flash Memory (NOR and NAND), BPROM, NOVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Reliable programming of low voltage devices down to 1.5 volts
- Overcurrent/overvoltage protection for safety of the chip & programmer hardware
- Microsoft® Windows® 9x/NT/2000/XP compatible
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.

**Includes:** 12VDC @ 2.5A AC adapter, program CD, USB cable and manual

Part No.	Description	1	5
231221	SuperPro-3000U USB universal programmer .....	\$989.95	\$940.45

**XELTEK**

## 20,000+ Device 48-Pin USB Programmer

- High speed programming, 32Mb flash in 13.5 seconds (program + verify)
  - ISP (in-system programmable) devices supported
  - Supports EPROM, paged EPROM, parallel & serial EEPROM, FPGA configuration serial PROM, FLASH memory (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, microcontroller, MCU, standard logic
  - Standard 48-pin universal drivers and adapter
  - Advanced hardware features minimized bounce noise
  - Pin continuity & wrong chip insertion check prevents chip from accidental damage
  - Over current and over voltage for programmer hardware
  - Software supports Windows® 98/ME/NT/2000/XP
- 692457:** supports 20,000+ devices from 132+ IC manufacturers  
**692449:** supports 29,000+ devices from 146+ IC manufacturers

**Includes:** Power adapter, manual, program CD and USB cable

Part No.	Description	Price
692457	SUPERPRO 280U programmer .....	\$524.95
692449	SUPERPRO 580U programmer .....	659.95

**XELTEK**

## 34,000+ Device/48-Pin USB Stand-Alone Gang Programmer

- 4 high speed 48-pin DIP programming sockets with four 128MB flash cards
- Supports 34,000+ devices, and growing
- Operates in both PC and stand-alone mode for volume production
- Programs latest low voltage devices
- Asynchronous fast programming, each module is independent from one another
- ISP (in-system programmable) devices supported
- Programming starts automatically when a chip is inserted
- Supports EPROM, EEPROM, serial EPROM, paged EPROM, serial PROM, flash EPROM (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, MCU, microcontroller, SRAM, and standard logic devices with voltages down to 1.5V
- Stand-alone interface: 16 characters x 4 lines backlit LCD, 6 standard hard-keys, 4 compact flash cards (removable which can support up to 256MB)
- Operating volt.: AC input of 90-250V @ 50/60 Hz, or 24V @ 5A power adapter
- Size: 21.3"L x 7.7"W x 2.3"H

**Includes:** 4 128MB CF cards, AC adapter, CD-ROM, USB cable and manual

Part No.	Description	Price
692490	SUPERPRO 9000U programmer .....	\$3,295.05

**XELTEK**

## 3400+ Device, 40-Pin Programmer

- Supports 3400+ devices, including most E(E)PROM, Series E(E)PROM & Flash
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronix (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 9x/NT/2000/XP • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.

**Includes:** Power adapter, parallel cable, manual and CD-ROM software

Part No.	Description	1	5
231183	SuperPro-Z universal programmer .....	\$244.95	\$232.69

# Project Boards & Breadboard Accessories

## Powered Project Boards

- Solderless breadboard with 2420 tie points
- Power switch with light
- Outputs are short circuit protected
- Weight: 6.8 lbs.

**Includes:** Power cord

**136259:** fixed power:

+5V @ 1A; variable power:

0 to ±15VDC @ 500mA

• Back panel has ground terminal

• Edge plate for non-DIP size components

• Input power: 120/220VAC @ 50-60Hz (switchable)

• Replacement fuse: P/N 103907, pg 97

• Breadboard size: 7.4"L x 6.8"W

• Enclosure size: 9.8"L x 8.0"W x 2.6"H

• One-year warranty

**1537264:** fixed power: +5V @ 1A; variable power:

0 to ±16VDC @ 300mA • Fuse protection


• Front panel has color coded terminals for DC output

power supply, adjustable knobs & ground terminal

• Input voltage: 110/220VAC @ 50-60Hz switchable

• Breadboard size: 5.8"W x 6.5"L

• Enclosure size: 10.0"L x 7.8"W x 2.4"D

Part No.	Description	1	10	25
136259	Powered brd  .....	\$109.95	\$103.88	\$101.94
1537264	Powered breadboard ....	84.05	75.00	64.00



136259

**EXTECH**  
INSTRUMENTS

## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.

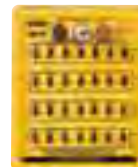
**211668:**

- 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments

**211676:**

- 5 decade ranges of capacitance
- 5% capacitance substitution from 100pF to 11,111pF

Part No.	Description	1	10
211668	Resistance .....	\$99.95	\$94.89
211676	Capacitance .....	130.25	123.68



211668





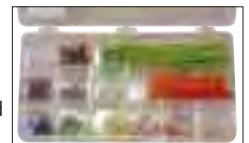
211676

## Wire Jumper Kit (350 pcs.)

- 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers
- Clear plastic durable case

**20080:** 350-piece refill for 19290 • Case not included

Part No.	Description	1	10	50	100
19290	Wire jumper kit  .....	\$16.59	\$14.97	\$13.47	\$12.12
20080	Refill for 19290  ...	11.65	10.48	9.43	8.59






19290

## Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



126342

Part No.	Cross Ref. No.	Length (mm/inch)	1	10	100
126360	JW50 	50/1.97 .....	\$4.45	\$3.90	\$3.29
126342	JW100 	100/3.94 .....	5.49	4.98	4.49
126325	JW200 	200/7.87 .....	5.79	5.23	4.74

## Digital/Analog Design Lab

### Solderless Breadboard

• 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

• Variable DC output: 0 to +15V & 0 to -15V @ 500mA Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA  
• Input power: 120/220VAC @ 50-60Hz (switchable)

### Function Generator

• Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz  
• Sine wave output: 0-8 Vpp variable • Triangle wave output: 0-6 Vpp variable • Square wave output: 0-8 Vpp variable

### Other features:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")
- 8 data switches
- 2 banana sockets, 2 BNC jacks
- 8 red LEDs with separate input terminals
- 2.5" dia. 8Ω, 25W speaker
- One-year warranty
- Includes power cord and manual



International  
120/220VAC  
Switchable

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
136267	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$439.95	\$399.95	\$335.95
319214	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	24.95	22.70	21.58

## Digital/Analog Design Labs

- Two 7-segment displays (digit height: 0.3")
- One-year warranty

### Solderless Breadboard

• Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

• DC supplies equipped with short circuit protection  
• Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed



Our most popular  
digital lab!

75839

International  
115/220VAC  
Switchable

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75839	1580	±5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890	2960	±5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
75839	Digital lab	10.6 x 13.3 x 5.0	8.1	\$290.19	\$275.68	\$261.90
201890	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	408.45	347.19	316.98

## AC/DC Power Supply

Ideal for Breadboards below



International 120/220VAC  
Switchable

### Output Specifications:

+5VDC @ 1A;  
-5V @ 300mA fixed;  
0 to +15VDC @ 500mA variable;  
0 to -15VDC @ 300mA variable;  
12-6-0-6-12 tapped VAC,  
300mA fixed

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 224
- Size: 7.4"W x 5.5"D x 2.6"H • Color: beige
- Weight: 5.5 lbs. • One-year warranty

Part No.	Description	1	10	25
77682	Power supply	\$139.15	\$127.54	\$115.94



## Solderless Breadboards

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (above right).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry

- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

\* WBU5 and JE series do not interconnect

**Attention Educators! Buy jumper wire (pg 241) in bulk and SAVE!**  
(see Solid Hook-up Wire on page 103)



20670



20758



20812

### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body - CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 241)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)

Part No.	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing			
									1	10	50	100
20601	JE21	1	2	400	0	3.3 x 2.1	—	0.13	\$5.49	\$4.97	\$4.46	\$4.02
20670	JE22	1	0	630	0	6.5 x 1.4	—	0.20	6.59	5.94	5.39	4.74
194299	JE37	1	2	640	0	6.9 x 2.4	—	0.25	11.25	10.11	8.08	6.06
20723	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.85	8.87	7.99	7.19
194271	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	19.14	17.82	16.94	16.08
20758	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901	WBU504	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.89	20.90	18.90	16.90
20774	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20791	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20812	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

## Great Savings on Breadboard Test Leads

Part No.	Description	1	10	25
421315	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm)	\$12.95	\$11.69	\$10.49

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Laser Diode and Driver

### 182932: Laser Diode

- Optical output power: 5mW maximum
- Operating current: 30mA
- 5.6mm packaging size
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- Beam divergence of 11° from center line max.



Class IIIa Laser Product

### 161737: Laser driver w/ regulator

- Input voltage: 2.6-6VDC
- Input current: 40mA

Part No.	Description	1	10	25
182932	650nm laser diode	\$14.95	\$13.45	\$12.15
161737	Laser driver	8.39	7.32	6.59

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia
- One-year warranty



Class IIIa Laser Product

Part No.	Description	Price
310519	Laser module, brass	\$44.95

## Green Laser Pointer



- Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night.
- Output wavelength: 532nm
  - Output power: <5mW
  - 90-day manufacturer's warranty

**Includes:** Metal gift box, clip and 2 AAA batteries

Part No.	Description	Price
223731	Green laser pointer	\$152.25

## Boe-Bot Full Kits



PARALLAX

Now with Robotics text v.2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot. Requires 4 AA batteries (not included).

Part No.	Product No.	1	10
387997	28832 (USB)	\$148.45	\$147.09

## 650nm Line and Dot Laser Diodes

### 143845/173243:

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty



Class IIIa Laser Product

### 143845: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60°

### 173243: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

### 143837: Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



### 143853: Laser module mount

- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment

Part No.	Description	1	10
143845	Line laser diode module	\$114.95	\$103.95
173243	Cross hair laser diode mod	89.95	80.95
143837	Regulated power supply	19.95	17.95
143853	Laser diode module mount	51.45	38.59

## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD



Part No.	Description	1	10	100
138288	.250" ID sleeve coupler	\$4.75	\$4.25	\$3.85

## Stamp Works Kit Plus

This all-in-one kit includes a well-written collection of 35 experiments that will teach you first class BASIC stamp programming.

- Weight: 10 lbs.

**Includes:** Stamp Works experiments and Source Code book, Basic Stamp Syntax and Reference Manual, development board (28138), 2 x 16 parallel LCD with custom cable, BS2 module, 3 rolls of 100' 22AWG wire, photoresistor, resistor and capacitor assortment, NE555CN timer, (2) 74HC165N, LM358N, DS1620, (2) 74HC595CN, 24LC32A serial EEPROM, MC14489 serial cable, USB cable, stepper motor, servo motor, CD-ROM software and documentation, and 12VDC @ 1A power supply.

Part No.	Product No.	Price
661116	27297 kit	\$248.95



## 75W Laser Diode

- Nanostack pulsed laser diode
- Nanostack laser technology including multiple epitaxially stacked emitters
- Applications: range finding, security/surveillance, illumination/ignition, test and measurement systems
- Peak power: 75W
- Laser aperture: 200µm x 10µm
- Number of emitters: 3
- Wavelength: 905nm



NEW

Part No.	Cross Ref. No.	1	10	100
1623584	SPL PL90-3	\$37.55	\$35.01	\$32.82

▲ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

## High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- 0.8"W x 1.4"D x 1.6"H
- Can be operated by P/N 151001, pg 148



Part No.	Description	1	10
157067	Robotic servo	\$19.95	\$17.95

## Accelerometer Evaluation Boards

**Dual Axis** Evaluation board for the ADXL202, dual axis, 2g accelerometer.

**177308:** features RS-232 interface to connect to PC serial ports.

Also includes software to display real time acceleration data.

177308



Crossbow

Part No.	Product No.	Description	1	10
177287	ADXL202EB	Dual axis	\$59.95	\$53.95
177308	ADXL202EB-232	w/ RS-232	164.65	150.29

## Flex Sensor

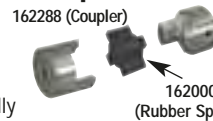


- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Nominal resistance: 10Ω
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10
150551	Flex sensor	\$12.95	\$11.65

## Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	10	50
162288	.125" (3.18 mm) ID hub	\$1.49	\$1.28	\$0.96
161998	.197" (5.00 mm) ID hub	1.19	1.02	.77
162270	.250" (6.35 mm) ID hub	1.49	1.31	1.20
162000	Rubber spider	1.55	1.38	1.26

## 16-Pitch Sprocket Set

- Operates in high humidity and corrosive environments
- Chain tension load: 2.0 lbs.
- Chain links can easily be added or removed to adjust total length
- 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/4" bore size



Part No.	Description	1	10	25
168276	Sprocket set - 14 pieces	\$29.49	\$26.49	\$23.89

## MONDO•TRONICS

## Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

**How it works...** Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

- Length: 1 meter
- Includes:** Crimps and instructions



Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
141321	100LT	100	150	180	28	150	33	\$17.95	\$15.95
141874	150LT	150	50	400	62	330	20	16.95	15.29
160055	375LT	375	8	2750	393	2000	4	22.95	19.95

\* Multiply by 0.0098 to get force in Newtons \*\* Cycles per minute, in still air, at 20° Centigrade

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend
New Sale Lower\$ QtySave

## BS2 Educational Starter Kit

This complete "Getting Started" kit is enhanced to include the *What's a Microcontroller?* (WAM) curriculum. Includes all of the BASIC Stamp hardware required to complete the activities and challenges. The WAM kit includes a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps.

**Includes:** BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

Part No.	Product No.	1	10
282829	27207	\$158.95	\$152.95

## Micro Bug Kits

A brightly colored miniature bug-shaped robot that is attracted to light.

- Two open chassis sub-miniature motors
- LED "eyes" indicate driving direction
- Adjustable light sensitivity that suits almost any light conditions
- Stops in total darkness
- Size: 4.0" x 2.4"

**Requires:** 2 AAA batteries (recommend P/N 249181, see web)

Part No.	Product No.	Description	Pieces	1	10
200328	MK127	Running	26	\$18.95	\$16.95
200336	MK129	Crawling	29	\$21.45	\$19.35

## Obstacle Avoidance Robot Kit

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140821	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	\$54.99	\$49.99

## Robotic Arm Trainer Kit

**Five Axes of Motion** Teaches basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its wired controller to grab, release, lift, lower, rotate wrist, and pivot sideways.

- Max. length: 14.2"
- Max. height: 20.1"
- Max. lifting capacity: 4.6 oz.
- Grip opens to 2" wide
- Shoulder movement @ 120°
- Elbow moving range @ 135°
- Wrist rotation clockwise or counter clockwise: 340°
- Rotates left to right at the base 350°
- Weight: 4.5 lbs.

**Requires:** 4 D batteries (recommend P/N 215845, see web)

Part No.	Description	1	10
157366	Robotic arm kit (unassembled)	\$83.95	\$76.44
159345	Robotic controller software (DOS 4.2 & up, Windows® 95/98)	\$5.79	\$7.26

## DC to Pulse-Width-Modulator Kit

The circuit converts a DC voltage into a series of pulses, directly proportional to the value of the DC voltage.

- Operating voltage: 8 to 35VDC
- PWM range: 0 to 100%
- PWM frequency: 100Hz to 5kHz (adjustable)
- Min. consumption: 35mA
- Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120539	K8004	3.3"L x 1.9"W x 1.8"H	0.5	\$22.95	\$20.49

## USB Interface Card Module

Interface board has 5 digital input channels and 8 digital output channels. In addition, there are two analog inputs and two analog outputs with 8-bit resolution. Inputs/outputs can be expanded by connecting more cards to the PC's USB port (max. of four).

- Diagnostic/Test Software**
- Clear all/set all function
  - Analog output set sliders
  - Separate output/input test
  - Analog input bar-graph indication
  - Counter function on inputs 1 and 2 with adjustable debounce

Part No.	Description	1	10
645263	USB interface card module	\$70.79	\$69.65

## Dual Adj. Regulated Power Supply Kit

Build a dual adjustable power supply for your circuits.

- Adjustable positive/negative supplies  $\pm 5$  to  $\pm 15$ VDC, 175mA–750mA per supply
- LED on indicator
- 120VAC input
- PC board construction

Part No.	Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626	JE215	5.1"L x 3.5"W x 2.0"H	2.1	\$27.54	\$24.59

## Function Generator Kit

**Sine, Triangle and Square Wave** Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.

- 21-piece kit (chip, components, PC board, hardware)

**Requires:** 12VDC supply or  $\pm 6$ VDC split supply (recommend P/N 20626, above)

Part No.	Cross Ref. No.	Dimensions	1	10
20685	JE2206	4.1"L x 1.5"W	\$24.95	\$22.95

## Universal Mono Pre-Amplifier

For audio applications with insufficient input signal.

- Output impedance: 1k $\Omega$
- Max. input signal: 40mV
- Frequency range: 20Hz - 20kHz  $\pm 1$ -3dB
- Adjustable output level: 40dB max.

**Requires:** 10/30VDC @ 10mA power supply (recommend P/N 20626, above)

Part No.	Product No.	Dimensions	1	10
117612	K1803	1.2"L x 1.8"W	\$8.95	\$7.95

## 7-Watt Amplifier Kit

- Music output power: 7W @ 4 $\Omega$
- Short circuit/overload protection
- RMS output: 3.5W @ 4 $\Omega$  & 2W @ 8 $\Omega$
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz ( $\pm 3$ dB)

**Requires:** 15VDC (8–18VDC) @ 500mA power supply (recommend P/N 155803, pg 196); speakers

Part No.	Product No.	Dimensions	1	10
127255	K4001	2.2"L x 1.4"W	\$14.95	\$13.36

## Infrared Transmitter/Receiver Kit

Transmit a 40kHz modulated IR signal a distance of 6' to 8'. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40kHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.

- Transmitter size: 1.0"L x 0.8"W
- Receiver size: 1.4"L x 1.2"W

**Requires:** 6 to 15VDC battery (recommend P/N 151095, pg 203)

Part No.	Cross Ref. No.	Description	1	10
177092	IR-2	Transmitter/receiver	\$24.95	\$22.49

## FM Stereo Transmitter Mini Kit

Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 88–108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.

**Requires:** 9VDC power supply (recommend P/N 151095, pg 203)

Part No.	Description	Dimensions	1	10
151239	FMST-100 stereo kit	2.7"L x 2.0"W	\$29.95	\$26.95

## FM Transmitter

Mini FM transmitter (100–108MHz) ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner.

- Integrated pre-amplifier (sensitivity 5mV)

**Requires:** 9–12VDC power supply (recommend P/N 20626, above)

Part No.	Product No.	Dimensions	1	10
117604	K1771	1.8"L x 2.8"W	\$12.90	\$12.66

## velleman Parking Radar Kit ■ 55-piece kit

Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object near you.

- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)
- Detection range: 5cm – 1.5m; angle: 5°
- Transmitter freq.: 40kHz

**Requires:** 10-15VDC @ 16mA max (recommend P/N 100095, pg 196) or auto power plug (recommend P/N 115002, pg 145)

Part No.	Product No.	1	10
129120	K3502	\$39.95	\$34.95

## IR LED Illuminator Kit ● 41-piece kit

- 36 high powered infrared LEDs
- At 24' the beam is approximately 3.5' across
- Improve low-light camcorder and CCD camera images without visible light

**Requires:** 12-15VDC power supply (recommend P/N 114825, pg 197)

Part No.	Description	Dimensions	1	10
157964	IR Illuminator kit	2" Dia.	\$16.95	\$15.29

## velleman Metal Detector ■ 22-piece kit

- Proximity range adjustable to 8cm
- Size: 2.1"L x 2.1"W
- LED indicator: can use with a buzzer

**Requires:** 9V battery (recommend P/N 151095, pg 203)

Part No.	Product No.	Description	1	10
129091	K7102	Metal detector	\$14.85	\$14.09

## velleman Flashing LED Sweetheart Kit ■ 46-piece kit

This kit shows a beating heart. Great for decorations!

- Power consumption: 8mA

**Requires:** 8 to 15VDC wall transformer (P/N 100095, pg 196) or 9VDC battery (P/N 151095, pg 203)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147555	MK101	2.5"L x 2.4"W x 1.2"H	0.1	\$11.95	\$10.95

## DC Voltage Monitor Kit ● 46-piece kit

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 0.5V, or 0.25V steps. Monitor 8V or 5V in 0.25V steps. Great for boats, motor homes, model planes or race car NICADs.

Part No.	Cross Ref. No.	Dimensions	1	10
181833	VM-1	2.7"L x 1.3"W	\$8.95	\$7.95

For more Distance, Light Kits and Solar Products, see our website  
[www.Jameco.com](http://www.Jameco.com)

## PowerFilm.

### Wireless Electronics Series

The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-thin profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.



228208



227993

### WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.

## Flexible Thin Film Solar Modules

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
227985	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49	\$3.19
227993	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45	1.99
171061	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	4.99
228013	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228030	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228072	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	23.75	21.25	19.12
228099	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.85	22.82	17.12
228110	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99
Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228161	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$39.89	\$33.91	\$25.43
228179	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228195	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	51.40	38.55
228208	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

## velleman Flashing LED Kit ■ 23-piece kit

Activates 2 flashing LEDs for applications such as model building. Flashing speed controlled by potentiometers.

- 5.5" wire w/ 9V battery connector
- Consumption: 4mA min.

**Requires:** 9VDC battery (P/N 151095, pg 203)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147580	MK102	1.3"L x 1.4"W x 0.6"H	0.1	\$7.95	\$7.19

## velleman Scrolling Message Kit ■ 76-piece kit

Create your own scrolling message with this 35-LED graphic display kit. Press "SET" to change a particular character, "UP" or "DOWN" arrow to select the character, and end your scrolling message with the "<" character.

- 35-LED display
- Maximum 16 characters

**Requires:** 9 to 12VDC @ 20mA (recommend P/N 100845, pg 195)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200310	MK124	3.5"L x 2.6"W x 1.8"H	0.2	\$24.95	\$22.45

## velleman Voice Activated LEDs Kit ■ 33-piece kit

Uses sound to activate the flashing of 4 bright red LEDs.

- Power consumption: 0.5mA min./12mA max.
- Adjustable sensitivity

**Requires:** 8-15VDC power supply (P/N 100095, pg 196) or 9VDC battery (P/N 151095, pg 203)

Part No.	Product No.	Dimensions	1	10
147571	MK103	2.5"L x 1.6"W x 1.4"H	\$9.95	\$8.95

## Super Snooper Big Ear Audio Amplifier Kit ■ 17-piece kit

Listen through walls, hear conversations across the room or listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube to isolate unwanted noise and make a directional microphone.

- Operating voltage: 9VDC (recommend P/N 151095, pg 203)

**Includes:** Instructions, outputs for speakers or headsets, and schematic

Part No.	Description	Dimensions	1	10
151204	Audio amplifier kit	1.8"L x 1.0"W x 0.6"H	\$10.95	\$9.95

## Mini-Panel Solar Cells

### Ready to Use! No Soldering

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use.

Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

Part No.	Cross Ref.	VDC @ mA	Size	Connection	1	10
200221	SOL4	2.0 @ 200	3.0"L x 3.7"W	Lead	\$10.65	\$9.43
215327	4-6.0-50	6.0 @ 50	3.8"L x 2.5"W	Lead	15.79	14.39



200221



215327

# Ordering Information

## PAYMENT OPTIONS

### Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

### Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

### Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

### C.O.D.

Personal checks are accepted. Please add \$7.50 per C.O.D. order. Include the name and address of your bank and your account number.

### International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.

E-mail: [international@jameco.com](mailto:international@jameco.com).

## SERVICES

### 30-Day Money Back Guarantee

If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error may be subject to a restock fee. Call our customer service department at 1-800-536-4316 or visit [www.jameco.com](http://www.jameco.com) to request an RMA#. It should appear clearly on the outside of the box. Returns without an RMA# will not be accepted, and no freight collect packages will be accepted. A completed Jameco customer service form, located on the back of the packing slip, must be included with your return. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

### Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

### No Other Warranties

The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to, implied conditions or warranties of merchantability, fitness for a particular purpose, and non-infringement of the products.

### Limitation of Liability

Jameco shall not be liable for any incidental, special or consequential damages for breach of any warranty, expressed or implied, directly or indirectly arising out of Jameco's sale of merchandise, including any failure to deliver any merchandise, or arising out of customer's installation or use, whether proper or improper, of the product, separately or in combination with other equipment, or from any other cause. Products sold by Jameco are not authorized for use as critical components in life support devices or systems.

## 5 EASY WAYS TO ORDER

**Telephone:** Toll-Free 24 hours a day!

1-800-831-4242

International orders, call 1-650-592-8097

**Toll-Free FAX:**

US/Canada: 1-800-237-6948

Brazil: 000-817-455-6119

Colombia: 980-9-136748

Indonesia: 1-803-015-237-6948

Mexico: 001-800-593-1449

New Zealand: 080-044-0470

Other Countries: 1-650-592-2503

**Online:**

<http://www.jameco.com>

On-line catalog! Our complete offering of products is searchable on the Jameco website!

**Mail:**

E-mail your order to:

[sales@jameco.com](mailto:sales@jameco.com) or fill out the order form (previous) and mail it to us.

**In-Person:**

Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m. – 5:00 p.m. Monday – Friday.

## CONTACT INFORMATION

The following services are available at

1-650-592-8097 Monday – Friday from

6:30 a.m. – 5:00 p.m. PST or via e-mail:

• International Sales ([international@jameco.com](mailto:international@jameco.com))

• Customer Service ([custservice@jameco.com](mailto:custservice@jameco.com))

• Credit Department ([credit@jameco.com](mailto:credit@jameco.com))

• Technical Support ([tech@jameco.com](mailto:tech@jameco.com))

### Toll-Free Hotline!

Please call us at 1-800-831-4242.

## POLICIES

### Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

### No Minimum Order

A \$5.00 processing fee will be added to U.S. orders under \$25.00. This fee will be waived on web orders. All international orders below \$40.00 will incur a \$7.50 processing fee.

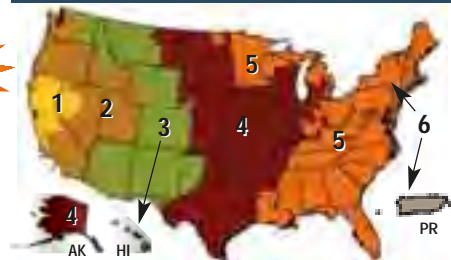
## PRICES

Prices are effective 07-09-07. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

## RoHS COMPLIANCE

Jameco obtains all RoHS compliance status information from its suppliers solely and does not verify or confirm such status.

## SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)

1 day	2 days	3 days
4 days	5 days	6 days

Orders received Mon.–Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

### Options and Rates\*

Shipping delivery times are based on working days.

Commercial Destination	First 2 lbs.	Additional 1b.
Ground	\$6.59	\$0.83
3-Day	\$10.69	\$1.84
2-Day	\$14.95	\$2.69
Next Day	\$37.95	\$4.19
Residential Destination	First 2 lbs.	Additional 1b.
Ground	\$6.95	\$0.83
3-Day	\$12.69	\$1.84
2-Day	\$16.95	\$2.69
Next Day	\$39.95	\$4.19

### Priority Mail (USPS)

\$5.95 for 1st lb.; \$1.49 for each additional lb.

Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day. Sorry we are unable to ship products mailed from an alternate warehouse via U.S.P.S.

### Packaging Weight

For domestic orders, exact package weight will be measured at shipment and separately billed.

\* The above rates apply to single box shipments through UPS that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs. or for other carriers. Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages.

### International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin.

See previous page for Ordering Information

**Fax 1-800-237-6948 Order 24 hours/7 days a week!**

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1-800-831-4242 International TEL: 1-650-592-8097 FAX: 1-650-592-2503

**1 Ordered By** (We will ship to this address unless you enter #2).Customer No. \_\_\_\_\_ VIP No. \_\_\_\_\_  
(see back cover)

Company \_\_\_\_\_

Name of Requisitioner \_\_\_\_\_

Title \_\_\_\_\_

Name of Purchasing Agent \_\_\_\_\_

Title \_\_\_\_\_

Street Address/PO Box Number \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip Code \_\_\_\_\_

Contact information (please provide all information and check method preferred)

(\_\_\_\_\_) \_\_\_\_\_

Daytime phone number - Required for Credit Card Orders

(\_\_\_\_\_) \_\_\_\_\_

Fax Number

E-mail Address \_\_\_\_\_

☐ Please check this box if you prefer not to receive special offers via e-mail from Jameco.**2 Ship To** (Only required if different from #1)

Company \_\_\_\_\_

Name \_\_\_\_\_

Title \_\_\_\_\_

Street Address/PO Box Number \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip Code \_\_\_\_\_

**3 Method of Payment**☐ Prepaid (check enclosed) ☐ C.O.D. (\$7.50 service charge)☐ Net 30 Days (Account must be previously established. Authorized P.O. # required.)

PURCHASE ORDER NO.: \_\_\_\_\_

☐ Credit Card

Credit Card users only:

Credit Card Number            Exp. Date: Month   Year     Name on card \_\_\_\_\_

Billing Address Street/PO Box \_\_\_\_\_

City/State/Zip \_\_\_\_\_

**4**

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

PRODUCT WEIGHT

SUB-TOTAL

Packaging Weight  
(Add 1/2 lb. + 1/2 lb.  
for each 10 lbs. of product)Total Weight  
(Round to next lb.)**5 Please Check Shipping Method Below**

Commercial Destination	First 2 lbs.	Additional lb.	Residential Destination	First 2 lbs.	Additional lb.
<input type="checkbox"/> Ground	\$6.59	\$0.83	<input type="checkbox"/> Ground	\$6.95	\$0.83
<input type="checkbox"/> 3-Day	\$10.69	\$1.84	<input type="checkbox"/> 3-Day	\$12.69	\$1.84
<input type="checkbox"/> 2-Day	\$14.95	\$2.69	<input type="checkbox"/> 2-Day	\$16.95	\$2.69
<input type="checkbox"/> Next Day	\$37.95	\$4.19	<input type="checkbox"/> Next Day	\$39.95	\$4.19

☐ **Priority Mail (USPS)\*** .....\$5.95 for 1st lb., \$1.49 for each additional lb.

\* Not available for products shipped from an alternate warehouse

☐ **Foreign Shipment** via Air Parcel Post .....Shipping approximately 25% of order total. Excess fees will be refunded. Additional shipping methods available.

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**6****JAMECO** *thanks you for your order!*

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**NEW**

## Power Supplies and Converter

See pages 175 – 189 for more Power Supplies




### 40-Watt Medical Open-Frame Power Supply

NFS-40 Triple Output



- Universal AC input
- Line regulation:  $\pm 0.2\%$
- Input surge current: 10A @ 110VAC; 22A @ 230VAC
- Hold-up time: 18ms @ 110VAC; 132ms @ 230VAC
- Efficiency: 70% typical
- Isolation voltage: 4000VAC (input/output)
- 40W with free air convection; 50W with 20CFM forced air
- Overvoltage protection
- Short circuit protection
- 2.2 watts/in<sup>2</sup> max.
- MTBF: 170,000 hours
- Size: 5"L x 3"W x 1.2"H



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	100
1774219	Artesyn 	NFS40-7908J	+5.1V@3A; +12V@2A; -12V@0.35A	40.0W	85-264@47-440	50	UL/CSA/VDE/CE	\$72.89	\$66.24	\$60.72





### 350-Watt Enclosed Power Supplies w/ PFC

LPS-350 Series: Single Output  
 LPQ-350 Series: Quad Output

- Universal AC input
- Efficiency: 75% typical
- Overload, overvoltage, thermal overload protection
- Power failure, remote on/off, DC-OK, remote sense logic control
- Size: 10.78"L x 5.0"W x 2.5"H
- Inrush current: 38A max.
- 350W w/ 30CFM forced air



Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing	
			Voltage@Current (min-max)	Power					1	5
1776231	Astec 	LPS355-(CEF)†	+24V@0-14.6A	350.4W	240	2	2	UL/CSA/VDE/CE/CB	\$398.65	\$392.60
1776249	Astec 	LPQ352-(CF)†	+5V@5A; +12V@0-12A; -12V@0-6A; -3.3V to 24V@1A-6A	350.0W	50	2	2	UL/CSA/VDE/CE/CB	450.95	428.40




### 10-Watt Encapsulated Converter

AEE02 Series:  
 Low Single Output

- Isolation voltage: 500VDC (input/output)
- Efficiency: 79% typical (5V)
- Switching frequency: 330kHz
- Operating base temp. range: -25°C to +95°C
- Isolation resistance: 300MΩ
- Voltage tolerance: 1%

See pages 189 – 190 for more Converters

Jameco Part No.	Product No.	Input Range	Output		Size Inches (L"xW"xH")	Pins	Line Reg. (%)	Load Reg. (%)	Ripple & Noise (mV p-p)	Pricing		
			Voltage@Current	Power						1	10	100
1768741	AEE02A24 	18-36V	+5V@200mA	10W	1.0x2.0x0.33	4	1.0	1.0	50	\$22.85	\$22.23	\$21.64


## FT Connector Assembly SFP

### Small Form-Factor Pluggable

- Right angle 0.8mm pitch
- Housing: high-temperature LCP UL94V-0 rated, black
- Contact: phosphor bronze
- Plating: 0.38μ" min. gold in contact area, 13μ" min. gold in solder area, 38μ" min. nickel underplate



**NEW**

Part No.	Product No.	Positions	1	10	100
741010	1367073-1 	20	\$1.89	\$1.75	\$1.57

See pages 129 – 134 for more Connectors

## 3M Four-Wall Headers

### 3000 Series

#### .100" x .100" Latch/Ejector

- Mounting holes for securing header to board
- Insulator material: glass filled polyester, black, UL94V-0
- Contact material: copper alloy
- Current rating: 1A
- Plating: 100μ" nickel underplating; 30μ" gold wiping area with 200μ" matte tin solder tail
- Insulation resistance: 1MΩ @ 500VDC




**NEW**

Right Angle

Straight

Short pin latch/ejector (right angle) \* Minimum order 50 pcs

Part No.	Product No.	Positions	1	50	100
1578947	N3429-5202RB 	26	\$3.56	\$3.34	

Long pin latch/ejector (straight)

Part No.	Product No.	Positions	1	10	100
1579190	N3793-6302RB 	10	\$1.35	\$1.54	\$1.44

See pages 130 – 132 for more Headers

## Fluke 124 Industrial Scopemeter®

- 8-bit resolution
- Rise time: <8.75ns
- Vertical frequency response (DC coupled): DC to 40MHz
- Vertical frequency response (AC coupled): <10Hz
- Input impedance: 1MΩ / 12pF
- Sensitivity: 5mV to 500V/div
- Display modes: A, -A, B, -B
- Scope modes: normal, roll, single
- Equivalent sampling range: 10ns to 500ns/div
- Max. vertical move:  $\pm 4$  divisions
- Horizontal move: 10 divisions
- Screen update: free run, on trigger
- Source: A, B, EXT
- Positive, negative slope
- Display modes: normal, smooth, envelope
- Peak modes: maximum, minimum, or peak to peak
- DC voltage ranges: 500mV to 1250V with full scale reading of 5000 counts
- True RMS voltage ranges: 500mV to 1250V with full scale reading of 5000 counts
- Frequency ranges: 1Hz to 70MHz with full scale reading of 10,000 counts
- Current ranges: 500mA to 1250A
- Resistance ranges: 500Ω to 30MΩ with full scale reading of 3000 to 5000 counts
- Capacitance ranges: 50nF to 500μF with full scale reading of 5000 counts
- Continuity & diode testing
- Size: 9.1"H x 4.5"W x 2.0"D



**NEW**

Includes: ext. pwr supply, probes, manual & CD ROM  
 ♦ Refurbished = Backed by Jameco

Part No.	Product No.	Price
1586138	FLUKE 124-003 ♦	\$1,095.00

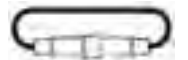
See pages 214 – 225 for more Test Equipment

## Bussmann Fuse Holder & Fuse Clips

### HHT In-Line Fuse Holder for 5mm x 15mm & 5mm x 20mm Fuses

**NEW**

- Body material: black, thermoplastic
- Wire leads: 13" 16AWG 0.14" OD red
- Size: 1.84"L x 0.42"D
- Terminals: brass
- Rating: 5mm x 15mm – 5A @ 32VDC; 5mm x 20mm – 10A @ 32VDC



Part No.	Product No.	1	10	100
1769794	HHT 	\$1.95	\$1.79	\$1.64

### Fuse Clips PCB Type for ATC 5mm, 1/4" and 13/32" Diameter Fuses

With End Stops and Straight Leads for 1/4"Dia. Fuses


- Finish: silver
- Clip material: beryllium copper



Part No.	Product No.	1	10	100
1769022	1A1907-05 	\$0.50	\$0.40	\$0.38

### With Straight Leads for 5mm Diameter Fuses


Prepackaged: please order in increments of 5

Part No.	Product No.	5	100
1769065	1A3399-10 	\$0.129	\$0.118

### For ATC Fuses (0-20A)


- Clip material: cartridge brass


Prepackaged: please order in increments of 5

Part No.	Product No.	Finish	5	100
1769102	1A5600 	Satin finish tin	\$0.32	\$0.30

See pages 94 – 98 for more Fuses & Accessories

♦ This product ships from a separate warehouse and may require an additional day to ship. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship USPS.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

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International Order Desk

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Fax: 650-592-2503

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